



Comisia de analiză a dosarelor de concurs a Facultății Inginerie Industrială, Robotică și Managementul Producției

AVIZ ÎNDEPLINIRE STANDARDE MINIMALE

Încheiat astăzi, **12.06.2023**, în cadrul ședinței desfășurate cu membrii Comisiei de analiză a dosarelor de concurs a Facultății IIRMP.

În conformitate cu **Metodologia de concurs** în vigoare în cadrul UTCN, art. 12 alin. (2) lit. i), art. 12 alin. (3) lit. g) și art. 35 alin. (7), Comisia de analiză a dosarelor de concurs de la nivelul Facultății Construcții de a verificat informațiile cuprinse în fișa de verificare depusă de Conf. Dr.ing. **Emilia BRAD** pentru postul **profesor poz. 09** din Statul de funcții al Departamentului Ingineria Proiectării și Robotică. Comisia de analiză apreciază că aceasta **îndeplinește** cerințele cuprinse în fișa de verificare.

Comisia de verificare

INGINERIE INDUSTRIALA

CONDITII PUNCTAJ PE GRUPE ȘI TOTAL

Nr. crt.	Criteriu	Indicatori	Punctaj minim	Rezultate
1	A1	Activitate didactică și profesională	130	148.5875
2	A2	Activitate de cercetare	300	1768.377674
3	A3	Recunoașterea impactului activității	100	574.8
TOTAL				2491.765174

CONDITII ÎN RAPORT CU CERINȚELE MINIMALE GRUPA A1

Indice	Denumire	Cerințe minime abilitare	Rezultat	Decizie
A1.1.1	Cărți/manuale/monografii/capitole de specialitate ca autor	Minim 2 prim autor	3, din care 1 unic autor, 1 prim autor	Îndeplinit
A1.2.1	Suporturi de curs/îndrumare	Minim 4, din care 2 prim autor	5, din care 2 unic autor	Îndeplinit
A2.2.1	Articole indexate în reviste ISI și în volumele unor manifestări științifice indexate ISI Clarivate Analytics, vizibile în baza de date	De la ultima promovare minim 8, din care 3 în reviste, minim 3 ca autor principal, minim 1 articol în reviste din zona roșie sau galbenă (în întreaga activitate)	23, din care 19 de la ultima promovare. De la ultima promovare, 5 în reviste indexate ISI cu FI (1 Q1, 3 Q2, 1 Q3), 4 în reviste indexate ISI (fără FI). Prim autor la 2 lucrări cu FI Q2, și prim autor la 2 lucrări în revistă indexată ISI fără FI.	Îndeplinit
A2.2.2	Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale	De la ultima promovare minim 8	29, din care 10 de la ultima promovare	Îndeplinit
A2.2.5	Granturi/proiecte câștigate prin competiție sau contracte cu mediul socio-economic	Minim 2D sau 4R	5 director, 3 responsabili, din care 3 director internaționale, 2 director naționale (toate proiectele cu mediul economic au încasări peste baremul de 25000 LEI)	Îndeplinit

CONDITII ÎN RAPORT CU CERINȚELE MINIMALE GRUPA A2

Nr. crt.	Domeniul activităților	Tipul activităților	Categoriile și restricții	Subcategoriile	Indicatori unitari	Rezultate	Punctaj
0	1	1	1	4	5	6	7
		2.1 Articole indexate în reviste ISI și în volumele unor manifestări științifice indexate ISI Clarivate Analytics, vizibile în baza de date	De la ultima promovare minim 8 articole, din care 3 în reviste, minim 3 ca autor principal, minim 1 articol în reviste din zona roșie sau galbenă (în întreaga activitate) ÎNDEPLINIT		30 + 10 * Factor Impact în anul publicării / (nr. de autori) (Reviste) 25/nr. de autori (Volume conferințe)	Promovat conferențiar universitar-01 oct. 2013	347.77
		2.2 Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI cf. Ordin 6129/2016)	De la ultima promovare minim 8 articole ÎNDEPLINIT		15/nr. de autori	Promovat conferențiar universitar-01 oct. 2013	176.5

2	Activitate de cercetare (A2)	2.3 Articole în extenso în reviste/volumele unor manifestări științifice naționale/internaționale neindexate				6/ nr. de autori (Reviste)	10, din care 9 conferințe	14.79
		2.4 Proprietate intelectuală, brevete de invenție și inovație, etc	2.4.1 Internaționale 2.4.2 Naționale			40/nr. de autori (Volume conferințe)	0	0
			2.5.1 Director/ Responsabil Abilitare minim 2D sau 4R INDEPLUNIT			20/nr. de autori	0	0
		2.5 Granturi/proiecte câștigate prin competiție sau contracte cu mediul socio-economic (în valoare de minimum 25000 lei, justificată cu documente care să ateste încasarea sumei)	Pentru cerințele minime, în cazul proiectelor de cercetare/innovare finanțate prin programele cadru ale U.E. de tip FP6, FP7, H2020, calitatea de R-reprezentant al instituției este echivalentă cu cea de D - director de proiect/contract. Se va lua în considerare, din bugetul total al proiectului,	2.5.1.1 Internaționale 2.5.1.2 Naționale 2.5.2.1 Internaționale 2.5.2.2 Naționale	20* val/ (10 mii €)	3 director 2 responsabil		706.47
		2.6 Coordonare/dezvoltare laborator/centru cercetare	2.5.2 Membru în echipă Responsabil Dacă laboratorul este și didactic, punctajul se ia în calcul o singură dată		10* val/ (10 mii €) 2*nr. ani participare în proiect	2 director 1 responsabil 2	1	37.87 8 60 40

1.2.1. Suporturi de curs/îndrumare							
Formula: nr. pagini/20*nr. autori							
Nr. crt.	Titlu	Tip	Pozitie	Nr. pagini	Nr. autori	Punctaj	
1	Brad, E., <i>Sisteme Flexibile de Fabricație</i> , Cluj-Napoca, Ed. UT PRES, ISBN 973-662-162-6, 90 pg., 2005.	îndrumar	Unic autor	90	1	4.5	
2	Brad, S., Brad, E., Mocan, B., <i>Basic Tools of Competitive Design in Robotics</i> , Cluj-Napoca, Ed. UT PRES, ISBN 973-662-161-8, 120 pg., 2005 (în limba engleză).	îndrumar	Coautor	120	3	2	
3	Brad, S., Mocan, B., Duca, A., Brad, E., <i>Robotizarea Asistată de Calculator a Fabricației</i> , Ed. UT Press, ISBN 978-973-662-361-5, 220 pg., 2008.	îndrumar	Coautor	220	4	2.75	
4	Brad, E., <i>Bazele Sistemelor Flexibile de Fabricație și Elemente de Fabricație Suplă (Lean)</i> , Ed. U.T. Press, ISBN 978-973-662-875-7, 541 pg., 2013.	Carte	Unic autor	541	1	27.05	
5	Brad, S., Brad, E., Mocan, B., Fulea, M., <i>Tools and Methods of Competitive Design in Robotics</i> , Editura UT Press, ISBN 978-606-737-067-6, 183 pg., Cluj-Napoca, 2015, (în limba engleză)	îndrumar	Coautor	183	4	2.2875	

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1.4 Dezvoltare de noi discipline (se punctează o singură dată în cazul multiplicării lor în programe de studii diferite)						
Formula: 10 puncte/disciplină						
Nr. crt.	Titlu	Tip	Pozitie	Specializare	Coefficient	Punctaj
1	Sisteme Flexibile de Fabricație	BSc	Titular	Robotică	10	10
2	Mașini Unelte și Echipamente de Fabricație	BSc	Titular	Robotică	10	10
3	Eco-Ergo Design	MSc	Titular	Design Industrial	10	10
4	Proiectarea Orientată a Sistemelor de Fabricație (Lean)	MSc	Titular	Proiectarea Asistată de Calculator a Sistemelor de Fabricație	10	10

1.5 Proiecte educaționale (ERASMUS, Leonardo etc.)						
Formula: 10 * (ani desfășurare)						
Nr. crt.	Titlu proiect	Tip proiect	Pozitie	Nr. ani	Coefficient	Punctaj
1	Centru Regional Virtual de Perfecționare și Transfer Tehnologic în Metode Moderne de Proiectare și Fabricație", cod: 00PH1671, derulat în cadrul Universității Tehnice din Cluj-Napoca în perioada 2003-2004	Phare	Responsabil	2	10	20
2	Program de Perfecționare pentru Manageri de Produs în „Ingineria și Managementul Inovației”: Instrument Suport pentru Firmele din Regiune în Abordarea Provocărilor Generate de Aderarea României la Uniunea Europeană”, cod: 03PH 0108, derulat în cadrul Universității din Cluj-Napoca în perioada 2005-2006	Phare	Responsabil	1	10	10
3	Masterat Internațional în Robotică Adaptabil la Piața Forței de Muncă, cod: 28382, derulat în cadrul Universității din Cluj-Napoca în perioada 2010-2012	POSDRU	Responsabil	2	10	20
4	Mainstreaming Technology Commercialization in Romania (MACRO), derulat în cadrul Universității din Cluj-Napoca în perioada 02.03.2020-30.09.2020	JAR	Responsabil	1	10	10
5	Cluj Future of Work, 2018-2021, https://uia-initiative.eu/en/uia-cities/clujnapoca	UIA	Responsabil	1	10	10

CALCULUL PUNCTAJULUI PENTRU GRUPA A2

2.1 Articole indexate în reviste ISI				
Formula: (30 + 10 * Factor Impact in anul publicării) / (nr. de autori)				
Nr. crt.	Lucrare	F.I.	Nr. autori	Punctaj

1	Popescu, S., Dragomir, M., Pitic, D., Brad, E., <i>Method for Competitive Environmental Planning</i> , Environmental Engineering and Management Journal, FI 1.004, ISSN 1582-9596, vol. 11, Issue 4, Pg. 823-828, 2012 [Q3]	1.004 (2012)	4	1.004	10.01
2	Brad, S., Mocan, B., Brad, E., Fulea, M., <i>Environmentally Sustainable Economic Growth</i> , Amfiteatru Economic, 18(42), 446-460, 2016 [Q3]	0.564 (2016)	4	0.564	8.91
3	Brad, S., Murar, M., Brad, E., <i>Design of Smart Connected Manufacturing Resources to Enable Changeability, Reconfigurability and Total-Cost-of- Ownership Models in the Factory-of-the-Future</i> , International Journal of Production Research, 56 (6), 2018, 2269-2291, 10.1080/00207179.2017.1400705 [Q1]	3.68 (2018)	3	3.68	22.26666667
4	Brad, S., Murar, M., Vlad, G., Brad, E., Popanton, M., <i>Lifecycle Design of Disruptive SCADA Systems for Waste-Water Treatment Installations</i> , Sustainability, 2021, 13, 4950. [Q2]	3.251 (2021)	5	3.251	12.502
5	Brad, E., Brad, S., <i>Algorithm for Designing Reconfigurable Equipment to Enable Industry 4.0 and Circular Economy-Driven Manufacturing Systems</i> . Applied Sciences. 2021, 11, 4446 [Q2]	2.679 (2021)	2	2.679	28.395
6	Brad, E., Brad, S. <i>Requirements Analysis in Disruptive Engineering Solutions Using the Paradigm of Living Systems</i> . Appl. Sci. 2021, 11, 9854 [Q2]	2.679 (2021)	2	2.679	28.395
					110.4786667

2.1 Articole indexate în volumele unor manifestări științifice indexate ISI Clarivate Analytics, vizibile în baza de date

Formula: 25/nr. de autori

Nr. crt.	Lucrare	Nr. autori	Punctaj
1	Brad, S., Brad, E., Ioaneș, C., <i>Method for Planning Multitasking Robot Application Programs in RAPID</i> , Journal of Solid State Phenomena (special Issue: Robotics and Automation Systems), 166(1): 69-76, ISSN 1012-0394, DOI: 10.4028/www.scientific.net /SSP.166-167.69, 2010	3	8.333333333
2	Brad, S., Murar, M., Brad, E., <i>Methodology for Lean Design of Disruptive Innovations</i> , Procedia CIRP, Elsevier, 50(2016), 153-159, 2016	3	8.333333333
3	Brad, S., Mocan, B., Brad, E., Fulea, M., <i>TRIZ to Support Blue-design of Products</i> , Procedia CIRP, 39 (2016), 125-131, 2016	4	6.25

4	Brad, E., Sărb, A., Popa, R.M., Timoftei, S., <i>Techniques for Ensuring Cost Savings and Environment Protection in Buildings</i> , Acta Technica Napocensis - Series: Applied Mathematics, Mechanics, and Engineering, Vol 61, No 4, pp. 647-656, 2018	4	6.25	
5	Brad, E., Sărb, A., <i>Applying TRIZ and CMFD to Design Sustainable, Intelligent, and Inclusive Buildings</i> , Acta Technica Napocensis - Series: Applied Mathematics, Mechanics, and Engineering, Vol 64, No 3, pp. 543-550, 2021	2	12.5	
6	Mocan, B., Brad, S., Fulea, M., Murar, M., Brad, E., <i>Safety Management within a Robotic Manufacturing Systems through Layout Design</i> , Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, ISSN: 1221-5872, WOS: 000451702200018, pp. 137-146, 2018	5	5	
7	Timoftei, S., Brad, E., Sărb, A., Stan, O. <i>Open-source Software in Robotics</i> , Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, ISSN: 1221-5872, Vol. 61, No. 3, pp. 519-526, 2018	4	6.25	
8	Fulea, M., Mocan, B., Brad, E., Homorodean, H., <i>Designing the Usability of an Innovation Management Assessment Software Platform</i> , 2016 International Conference on Production Research - Regional Conference Africa, Europe and the Middle East (ICPR-AEM 2016) and 4th International Conference on Quality and Innovation in Engineering and Management (QIEM 2016), pp. 340-345, 2016	4	6.25	
9	Timoftei, S., Brad, E., Fenişer C., Valda, C., Filip, D., <i>Integration of Industrial Robots in Fine Arts Applications: Algorithms and a Case Study with ABB Robot Technology</i> , International Conference on Production Research – Africa, Europe and the Middle East and 4th International Conference on Quality and Innovation in Engineering and Management, 25-30 July 2016, Cluj-Napoca, Romania, pp.466-471, 2016	5	5	
10	Brad, S., Brad, E., Mocan, B., <i>Bringing the Edge of Competitiveness into Engineering Design Education</i> , 5 th Balkan Region Conference on Engineering and Business Education, Sibiu, ISSN 183-6730, 363-368, 2009	3	8.333333333	

11	Brad, S., Fulea, M., Mocan, B., Brad, E., <i>Systematic Innovation for Improving Competitiveness of a Master Study Programme</i> , International Conference on Engineering & Business Education, Innovation and Entrepreneurship, Sibiu, Oct. 18-21, ISBN 978-606-12-0369-7 / ISSN 1843-6730, pg. 365-368, 2012	4	6.25	
12	Fulea, M., Iles, A., Brad, S., Brad, E., Mocan, B., Murar, M., <i>An Innovative Approach on Prioritizing Internal Improvement Projects within SMEs</i> , 3rd Int. Conf. on Quality and Innovation in Engineering and Management, 978-973-662-978-5, Cluj-Napoca, 209-214, 2014	6	4.165666667	
13	Mocan, B., Fulea, M., Brad, E., Brad, S., <i>State-of-the-Art and Proposals on Reducing Energy Consumption in the Case of Industrial Robotic Systems</i> , 3rd Int. Conf. on Quality and Innovation in Engineering and Management, 978-973-662-978-5, Cluj-Napoca, 337-341, 2014	4	6.25	
14	Brad, S., Mocan, B., Brad, E., Fulea, M., <i>Vectors of Innovation for Balancing Economic Growth and Sustainable Development</i> , Proceedings, BASIQ Int. Conference, ISSN 2457-483X, Bucharest, 457-464., 2015	4	6.25	
15	Brad, S., Brad, E., <i>Lean Innovation of Course Unit Content</i> , 3rd International Engineering and Technology Education Conference & 7th Balkan Region Conference on Engineering and Business Education, Sibiu, DOI 10.1515/cplbu-2015-0020, 2015	2	12.5	
16	Brad S., Brad E., Homorodean D. <i>CALDET: A TRIZ-Driven Integrated Software Development Methodology</i> . In: Benmoussa R., De Guio R., Dubois S., Koziolek S. (eds) <i>New Opportunities for Innovation Breakthroughs for Developing Countries and Emerging Economies</i> . TFC 2019, IFIP Advances in Information and Communication Technology, vol 572, Springer, Cham. ISBN 978-3-030-32496-4, pp. 400-416. DOI: 10.1007/978-3-030-32497-1_32, WOS:000571099200032, ISSN: 1868-4238, eISSN: 1868-422X, 2019	3	8.333333333	

17	Chiorean, A., Brad, S., Brad, E. <i>Knowledge Modelling of E-maintenance in Industrial Robotics, Interdisciplinary Research in Engineering: Steps Towards Breakthrough Innovation for Sustainable Development</i> , Advanced Engineering Forum, vol. 8-9, pp. 603-610, DOI 10.4028/www.scientific.net/AEF.8-9.603, 2013	3	8.333333333
			124.5833333

2.2 Articole în reviste și volumele unor manifestări științifice Indexate în alte baze de date internaționale Formula: 15/nr. de autori			
Nr. crt.	Lucrare	Nr. autori	Punctaj
1	Brad, S., Brad, E., Morar, L., <i>Competitive Engineering in Product Redesign</i> , Acta Technica Napocensis (B), Series: Applied Mathematics and Mechanics, No. 50, vol. I/2007, ISSN 1221-5872, pg. 39-44, 2007	3	5
2	Brad, S., Brad, E., <i>Designing Trends in Robotics - Design for Excellence</i> , Int. Conference ICMAS'2002, București, Ed. Academiei Române, Romanian Journal of Technical Sciences (B), Applied Mechanics, Tome 47, ISSN 0035-4074, ISBN 973-27-0932-4, pg. 583-586, 2002	2	7.5
3	Brad, S., Brad, E., <i>Quantifying the Market Potential of an Innovative Product Idea</i> , Acta Technica Napocensis (B), Series: Applied Mathematics and Mechanics, ISSN 1221-5872, 51(1): 7-12, 2008	2	7.5
4	Brad, S., Fulea, M., Mocan, B., Duca, A., Brad, E., <i>Software Platform for Supporting Open Innovation</i> , 2008 IEEE-TTTC International Conference AQTR, ISBN 1-4244-0361-8, SCOPUS, IEEE Xplore, 224-229, 2008	5	3
5	Brad, S., Fulea, M., Brad, E., Mocan, B., <i>Systematic Integration of Innovation in Process Improvement Projects Using the Enhanced Sigma-TRIZ Algorithm and Its Effective Use by Means of a Knowledge Management Software Platform</i> , Informatica Economica (B+), ISSN 1453-1305, 13(4): 75-89, 2009	4	3.75
6	Brad, S., Brad, E., <i>Quality Planning in Robotized Manufacturing Systems</i> , ROBTEP 2006 8 th Int. Conference, Košice, Acta Mechanica Slovaca, ISSN 1335-2393, pg. 63-69, 2006	2	7.5

7	Brad, S., Fulea, M., Brad, E., A PSS Approach in Software Development, 2 nd CIRP IPS ² Conference 2010 on Product-Service Systems, Linköping, Suedia, ISBN 978-91-7393-381-0, 291-298, 2010. (conferință nivel A)	3	5	
8	Brad, S., Brad, E., Mocan, B., Concurrent Approach for Multiple Eco-function Design, 17 th CIRP International Conference on Life Cycle Engineering, Hefei, China, ISBN 978-7-5650-0186-4, 236-241, 2010. (conferință nivel A)	3	5	
9	Brad, S., Brad, E., Swarm Intelligence-Based Evolutionary Algorithm for Conceptual Design of Reconfigurable Manufacturing Equipments, Acta Technica Napocensis (B+), Series: Applied Mathematics and Mechanics, ISSN 1221-5872, 53(3): 393-398, 2010	2	7.5	
10	Brad, E., Brad, S., Model for Quantifying the Reconfiguration Index of Reconfigurable Manufacturing Equipments, Acta Technica Napocensis (B+), Series: Applied Mathematics and Mechanics, ISSN 1221-5872, 53(3): 503-508, 2010	2	7.5	
11	Brad, E., Popescu, S., Design Principles of Reconfigurable Manufacturing Equipments, Acta Technica Napocensis (B+), Series: Applied Mathematics and Mechanics, ISSN 1221-5872, 53(3): 509-514, 2010	2	7.5	
12	Popescu, S., Brad, E., Performance Planning of Reconfigurable Manufacturing Equipments, Acta Technica Napocensis (B+), Series: Applied Mathematics and Mechanics, ISSN 1221-5872, 53(3): 445-450, 2010	2	7.5	
13	Nedezki, C.M., Julean, D., Brad, E., Inverse Geometric Model of 4RUU Manipulator, Acta Technica Napocensis (B+), Series: Applied Mathematics and Mechanics, ISSN 1221-5872, 53(3): 487-490, 2010	3	5	
14	Nedezki, C.M., Brad, E., Workspace Analysis for 3RUU Parallel Manipulator, Acta Technica Napocensis (B+), Series: Applied Mathematics and Mechanics, ISSN 1221-5872, 53(4): 649-652, 2010	2	7.5	
15	Nedezki, C.M., Brad, E., The Analysis of the Singularities of the Parallel Spatial Manipulator 3RUU, Acta Technica Napocensis (B+), Series: Applied Mathematics and Mechanics, ISSN 1221-5872, 53(4): 653-656, 2010	2	7.5	

16	Brad, S., Chioresanu, A., Fulea, M., Mocan, B., Brad, E., <i>Reconfigurability Function Deployment in Software Development</i> , Informatica Economica, 15(2): 130-141, 2011	5	3
17	Brad, E., <i>Indicatori de Evaluare a Eficacității Proceselor Organizaționale în Contextul Sistemelor de Management al Calității</i> , Calitatea AS, ISSN 1582-2559, SCOPUS, vol. 12, nr. 4, pg. 7-12, 2011	1	15
18	Brad, E., Pitic, L., <i>Conducerea Inovației de Proces Utilizând o Abordare de Tip Control Adaptiv și Costurile Calității</i> , Calitatea AS, SCOPUS, ISSN 1582-2559, vol. 12, nr. 124, pg. 19-26, 2011	2	7.5
19	Brad, S., Brad, E., Mocan, B., <i>Framework for Eco-Innovative Design with Application in Low Voltage Electric Appliance Industry</i> , International Journal of Environmental Technology and Management, Inderscience Enterprises (SCOPUS), vol. 14, nr. 5/6, pg. 379-396, ISSN 1466-2132, 2011	3	5
20	Brad, S., Mocan, B., Brad, E., Mocan, M., <i>Economic Development of Peripheral/Lagging Zones through Smart Innovation</i> , International Journal of Transitions and Innovation Systems, SCOPUS, 4(3/4), 201-220, 2015	4	3.75
21	Brad, S., Mocan, B., Brad, E., Fulea, M., <i>Leading Innovation to Improve Complex Process Performances by Systematic Problem Analysis with TRIZ</i> , Procedia Engineering, 131(2015), 1121-1129, Elsevier, 2015	4	3.75
22	Brad, S., Brad, E., <i>Enhancing SWOT Analysis with TRIZ-based Tools to Integrate Systematic Innovation in Early Task Design</i> , Procedia Engineering, 131(2015), 616-625, Elsevier, 2015	2	7.5
23	Brad, S., Fulea, M., Brad, E., Mocan, B., <i>Smart Deployment of Demonstrators into Commercial Successful Solutions</i> , Procedia CIRP, Elsevier, DOI: 10.1016/j.procir.2014.03.137, vol. 21, 503-508, 2014	4	3.75
24	Brad, S., Brad, E., <i>Directed Innovation of Business Models</i> , International Journal of Management, Knowledge and Learning, SCOPUS, 5(1), 97-119, 2016	2	7.5

25	Fulea, M., Brad, E., Mocan, B., Brad, S., <i>Managing Emotional Aspects of PSS Functionalities for Sustainability</i> , 5 th CIRP Int. Conf. on Industrial Product Service Systems, Bochum, Germany, March 14-15, in: <i>Product-Service Integration for Sustainable Solutions</i> , Lecture Notes in Production Engineering (ed. Horst Meier), Ed. Springer, Springer Link, ISBN 978-3-642-30819-2, pg. 165-175, 2013	4	3.75
26	Brad, S., Brad, E., <i>Enhancing SWOT Analysis with TRIZ-based Tools to Integrate Systematic Innovation in Early Task Design</i> , Elsevier, TRIZ Future Conference, Paris, SCOPUS, pg. 91-100, 2013	2	7.5
27	Fulea, M., Popescu, S., Brad, E., Mocan, B., Murar, M., <i>A literature survey on reconfigurable industrial robotic work cells</i> , Robotics 2014, Bucharest, SCOPUS, 2014	5	3
28	Brad, S., Brad, E., Crisan, L., Crisan A., <i>Framework for Planning Polycentric Innovation in High-tech Dynamic Industries</i> , the 23rd International Conference on Production Research (ICPR23), SCOPUS, Manila, 2-6 August 2015	4	3.75
29	Brad, E., Brad, S., <i>Value Chain Planning in Cross-Industry Meta-Cluster Initiatives</i> , Balkan Region Conference on Engineering and Business Education, Scienco, vol. 1(1), DOI: 10.2478/scpbu-2020-0030, pp. 256-264, ISSN 2391-8160, 2019	2	7.5
			176.5

2.3 Article in extenso in reviste neindexate			
Formula: 6/nr. de autori			
Nr. crt.	Lucrare	Nr. autori	Punctaj
1	Popescu, S., Brad, E., <i>Cercetări Privind Asigurarea Calității în Dezvoltarea Procedeelor de Studiu al Pieței</i> , Cluj-Napoca, Revista Casa Calității, nr. 2/1999, pg. 41-48, 1999	2	3
			3

2.3 Article in extenso in volumele unor manifestări științifice naționale/internationale neindexate			
Formula: 4/nr. de autori			
Nr. crt.	Lucrare	Nr. autori	Punctaj
1	Brad, S., Biețea, I., Brad, E., <i>3D Computer Graphics Simulation of Inverse Kinematics in a Constrained Space and Direct Kinematics for an Anthropomorphic Robot Arm with 5 DOF</i> , Proceedings of the 4th Int. Workshop RAA'95, Portschach, Austria, vol.1, pg.63-66, 1995.	3	1.333333333

2	Popescu, S., Berce, P., Tătaru, O., Brad, S., Brad, E., <i>Quality Analysis of the Research Management Within Technical University of Cluj-Napoca</i> , Proceedings of the 9 th International DAAAM Symposium, Cluj-Napoca, oct., pg. 405-406, 1998	5	0.8	
3	Galis, M., Brad, E., Brad, S., <i>An Approach for Conceptual Design of FMS Layout Using a Multi-Criteria & Multi-Objective Decision Technique</i> , Proceedings of the 5 th International MTem Symposium, Cluj-Napoca, oct.2001, Ed. Alma Mater, ISBN 973-85354-1-7, pg. 207-210, 2001	3	1.333333333	
4	Brad, S., Brad, E., <i>Quality Through Course Unit Design: A Point of View on Quality Assurance in Higher Education</i> , Proceedings Int. Cong. MTem'03, Cluj-Napoca, Ed. Roprint, ISBN 973-656-490-8, pg. 77-80, 2003	2	2	
5	Crășan, L., Brad, E., Hurgolu, D., Chechicheș, D., <i>Quality Improvement of Violin Surfaces Using 3D Scanning Equipment</i> , microCAD International Conference, March 2004, Miskolc, Hungary, ISBN 963 661 618 3, pg. 43-48, 2004	4	1	
6	Crășan, L., Lantos, M., Brad, E., Grozav, S., <i>Quality Improvement of ROMBAT Pilot 12-55 Battery Using FMEA Method</i> , microCAD International Conference, March 2004, Miskolc, Hungary, ISBN 963 661 618 3, pg. 49-55, 2004	4	1	
7	Brad, S., Mocan, B., Brad, E., <i>Innovative Approach for Better Planning the Design Process of Quality Management Systems According to ISO 9001:2000 Standard</i> , Proceedings Int. Conf. of Production Engineering "Development and Modernization of Production" RIM05, Bihac, Bosnia-Herzegovina, ISBN 99589262-0-2, pg. 431-436, 2005	3	1.333333333	
8	Brad, S., Fulea, M., Mocan, B., Brad, E., <i>An Innovative Intelligent Software Application for Quality Cost Management</i> , Int. Conf. MTem05, Cluj Napoca, ISBN 973-9087-83-3, pg. 177-120, 2005	4	1	
9	Brad, E., Brad, S., <i>Design for Reconfiguration of Production Equipments</i> , Proceedings of the 6 th International Scientific Conference on Production Engineering (Development and Modernization of Production), RIM2007, Bihac, Bosnia-Herzegovina, ISBN 978-9958-9262-1-1, pg. 59-64, 2007	2	2	

2.5 Granturi/proiecte câștigate prin competiție sau contracte cu mediul socio-economic						
2.5.1 Director/ Responsabil						
2.5.1.1 Internaționale						
Formula: 20* valoare în € / 10.000 €						
Nr. crt.	Denumire proiect	Pozitie	Tip	Buget în UTCN (euro)	Punctaj	
1	Brad, E. Chiș. I., Stan, A., ș.a. Proiect COSME: <i>BISNet Transylvania</i> , cod 831296, Finanțator: Comisia Europeană, Universitatea Tehnică din Cluj-Napoca, 2019	Director	COSME	24,248.40	48.4968	
2	Brad, E. Chiș. I., Stan, A., ș.a. Proiect COSME: <i>BISNet Transylvania</i> , cod 880115, Finanțator: Comisia Europeană, 2021	Director	COSME	63,858.20	127.7164	
3	Brad, S., Brad, E., Fulea M., Chioareanu, A., Mocan, B., <i>IT Tool to Support SMEs in Systematic Innovation, Based on Consolidated Methodology and Innovation Knowledge Domain Structured through Specific Ontologies</i> , Acronim: TECH-IT-EASY, proiect FP7, Call SME-2008-1, Cod: 232410, 2009-2011	Responsabil	FP7	217,798.00	435.596	
4	Brad, S., Brad, E., Fulea M., Mocan, B., <i>Demonstrating the Industrial Validity and Market Feasibility of IT Tool to Support SMEs in Systematic Innovation Processes</i> , Acronim: MARKET-IT, Proiect FP7, Call SME-2011, Cod: 311517, 12012-2014	Responsabil	FP7	40,049.38	80.09876	
5	Brad, E. Mocan, B., Fulea, M., Brad, S., <i>Redesign the Robotic Fences for Fast Installation</i> , finanțator: CSI Industries B.V. Holland, Grant Agreement no. 28343/10.11.2015, 2015-2016.	Director	Mediul economic	7,290.00	14.58	
6	Brad, E. Chiș. I., Stan, A., ș.a. Proiect COSME: <i>BISNet Transylvania</i> , cod 101052723, Finanțator: Comisia Europeană, 2022.	Director	SMP-COSME-2021-EEN	230,000.00	460	
					1166.48796	

2.5 Granturi/proiecte câștigate prin competiție sau contracte cu mediul socio-economic						
2.5.1 Director/ Responsabil						
2.5.1.2 Naționale						
Formula: 10* valoare în € / 10.000 €						
Nr. crt.	Denumire proiect	Pozitie	Tip	Buget în UTCN (lei)	Punctaj	
1	Brad, E. Fulea, M., Mocan, B., ș.a., <i>Optimizarea unei linii automatizate de fabricație pentru materiale de construcții</i> , Contract nr. 1735 / 22.10.2012, Beneficiar SC Îndemânarea Prodcom	Director	Mediul economic 1 EURO = 4.5757 LEI la 22.10.2012	40,000.00	8.75273523	
2	Brad, E., ș.a. <i>Sistem de management a inovării conform cu SR EN TS 16555</i> , nr. 72/28.12.2018.	Director	Mediul economic 1 EURO = 4.6581 LEI la 28.12.2018	53,550.00	11.51612903	
3	Brad, S., Brad, E., ș.a. <i>Elaborarea strategiei de dezvoltare a județului Bistrița-Năsăud pentru perioada 2014-2020</i> , Contract nr. 212/15.11.2012.	Responsabil	Mediul economic 1 EURO = 4.5379 LEI la 15.11.2012	79,968.00	17.65298013	

4	Brad, S., Brad, E., s.a., Concepția, proiectarea, execuția, testarea experimentală și optimizarea unui echipament inteligent și conectat în rețea pentru sublinierea acidului benzoic din rășinile	Responsabil	Mediul economic 1 EURO=4,7787 Lei la 28.01.2020	74,440.00	15.60587002
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53.52771442

2.5 Granturi/proiecte câștigate prin competiție sau contracte cu mediul socio-economic					
2.5.2 Membru în echipă					
2.5.2.1 Internaționale					
Formula: 4 * nr. ani participare în proiect					
Nr. crt.	Denumire proiect	Pozitie	Nr. ani	Punctaj	
1	Brad, S., Brad, E., Kinematic models of high precision machine-tool using advanced competitive engineering tools, contract nr. 25051242/20.09.2005, finanțator: Kugler GmbH, Germania, 2005	Membru	1	4	
2	Brad, S., Brad, E., s.a., Cybersecurity Counter, Acronym: GEIGER, Code: 883588, H2020, 2020-2023	Membru	1	4	

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2.5 Granturi/proiecte câștigate prin competiție sau contracte cu mediul socio-economic					
2.5.2 Membru în echipă					
2.5.2.2 Naționale					
Formula: 2 * nr. ani participare în proiect					
Nr. crt.	Denumire proiect	Pozitie	Nr. ani	Punctaj	
1	Popescu, S., ..., Brad, E., ..., Instrumente și metode moderne ale ingineriei și managementului calității în sprijinul reformei instituțiilor și economiei românești, Banca Mondială / CNCIS, tip D, nr. 104/8616/09.08.2000	Membru	1	2	
2	Popescu, S., ..., Brad, E., ..., Cercetări privind dezvoltarea și implementarea metodelor specifice asigurării în managementul cercetării universitare, Contract nr. 673/2000, Beneficiar: CNCIS, 2000	Membru	1	2	
3	Brad, S., Brad, E., s.a., Cercetări privind proiectarea pentru excelența în robotica, Contract 33531 / 2002-2003, Tema 27, Beneficiar CNCIS, 2002-2003	Membru	2	4	
4	Brad, S., Brad, E., s.a., Cercetări privind dezvoltarea competitivă și implementarea unui sistem de management al calității la nivelul proceselor de fabricație robotizate în conformitate cu standardul ISO 9001:2000, Proiect finanțat prin programul PNCDI-CALIST, Subprogram 4-MMC, Contract 4404/31.07.03 MEET, 2003-2004	Membru	2	4	

5	Brad, S., Brad, E., s.a., Cercetări privind proiectarea pentru reconfigurabilitate a echipamentelor de fabricație, Contract CNCIS, Tema A12/96, Beneficiar CNCIS, 2004-2005	Membu	2	4
6	Cupan, C., ..., Brad, E., ..., Proiectarea unei mașini de debitare cu jet de apă-abraziv cu amplificator de presiune inclus în capul de tăiere, Contract nr. 33385/2004, Tema 16/877, Beneficiar: CNCIS, 2004	Membu	1	2
7	Brad, S., Brad, E., s.a., e_QOST: Sistem informatic inovativ pentru monitorizarea, controlul și planificarea costurilor referitoare la calitate, Cod 5402, PNCDI-CALIST, 2004-2006	Membu	2	4
8	Brad, S., Brad, E., s.a., Instrumente avansate pentru managementul complexității procesului de concepție / sinteză a produselor radical inovative, Contract tip A, Tema A3, Cod 1285, Beneficiar CNCIS, 2006-2007	Membu	2	4
9	Brad, S., Brad, E., s.a., Creșterea Performanțelor de Calitate în Cadrul Proceselor Cooperative din IMM-uri prin Sisteme Expert în Ingineria și Managementul Inovației, acronim INOVEX, Contract CEEX II nr. 140/02.10.2006, ANCS, Cod. 628, 2006-2008	Membu	2	4
10	Berce, P., Brad, S., Popescu, S., ..., Brad, E., ș.a. Platformă Integrată de Cercetare și Formare pentru Producția Inovativă: Fabrica Viitorului. Platformă de cercetare, finanțator: MEC/CNCIS, 2006-2008	Membu	2	4
11	Fulea, M., Brad, S., Mocan, B., Brad, E., ș.a. Integrated Innovation Management Systems for SMEs, acronim: InnDrive, finanțator: ANCS, Cod: PN-II-PT-PCCA-2013-4-1319, (Sistem integrat de Management al Inovării în IMM-uri – InnDrive, PCCA/341/2014), 2014-2017	Membu	3	6
12	Brad, S. Brad, E., s.a., Elaborarea pe principii de competitivitate a strategiei de dezvoltare durabilă pentru județul Bistrita-Nasaud, Contract 32/21.05.2002, Beneficiar CCIA Bistrita, 2002	Membu	1	2
13	Brad, S. Brad, E., ș.a., Elaborarea unui model de evaluare eficientă a excelenței organizatoriale în cazul IMM-urilor din regiune în vederea estimării potențialului acestora de a dezvolta afaceri durabile la nivel european, Contract 2/A.E.C.E. / 12.09.2002, Beneficiar CCIA Bistrita, 2002	Membu	1	2

14	Brad, S. Brad, E., ș.a., Proiectarea competitivă a unei platforme software personalizate pentru managementul costurilor referitoare la performanța proceselor sistemului de afaceri la SC ChimComplex SA Borzesti, nr. 125/02.12.2004, Beneficiar SC ChimComplex SA Borzesti, 2004-2006	Membu		2	4
15	Fenker, C., Brad, E., ș.a., Îmbunătățirea performanțelor proceselor de producție cheie din cadrul Nova Grup prin procedee "lean" de management și organizare a producției, Beneficiar: Nova Grup, 57/27.01.2016, 2016-2019	Membu		3	6
16	Brad, S., Brad, E., ș.a., Servicii de analiză și suport tehnic în digitalizarea monitorizării operațiilor Centrului de Management Integrat al Deșeurilor (nr. 44804) din data de 29.12.2020, Beneficiar: CJ Cluj, 2021	Membu		1	2
17	Brad, S., Brad, E., Crăciun, S., Certificare în regim voluntar a produsului ROLA 108 V, cod: 24204/13.09.2019, Beneficiar: PRODIMA, Bistrița, 2019	Membu		1	2
18	Brad, S., Brad, E. ș.a., Proiectare și optimizare platforma subterană de colectare a deșeurilor, nr. 6135/08.03.2019, Sky Park Systems SRL, Cluj-Napoca, 2019	Membu		1	2
19	Brad, S., Brad, E., ș.a., Strategia integrată de informatizare și transformare digitală a Primăriei Municipiului Bistrița, 144/I/28.09.2022, Cluj IT, beneficiar: Primăria Bistrița, 2022-2023.	Membu		1	2
20	Brad, S., Brad, E., Diagnoză inovație digitală asociată cu implementarea unui sistem de management al inovării, DTC/02/VPL-A data 25.01.2022, beneficiar: DATA COR, 2022.	Membu		1	2
21	Brad, S., Brad, E., ș.a., Concepția, proiectarea și realizarea unui sistem robotic semi-autonom în contextul aplicării unor metode inovative de recoltare a lavandei și adaptabilității culturilor, nr. 6651/08.03.2022, beneficiar: GAL Perolisum, 2022-2023.	Membu		1	2
22	Brad, S., Brad, E., ș.a., Strategia de smart city pentru Municipiul Alba-Iulia, cod SMS 128599, nr. 76160/04.08.2020, Beneficiar: Primăria Alba-Iulia, 2020-2022.	Membu		1	2
23	Brad, S., Brad, E., Audit și certificare ISO 56002:2019 sistem de management al inovării, DTC/01/VPL-ISO56002 data 25.01.2022, beneficiar: DATA COR, 2022.	Membu		1	2

24	Paulina, M., Brad, E., ș.a., "Modele computaționale bazate pe big data și analiza predictivă a datelor pentru optimizarea și automatizarea distribuției de produse de asigurare prin platforma 24Broker.ro", Contractul de finanțare nr. 378 / 390054, cod MySMIS 121104 - Proiect POC, Axă Prioritară 1; Cercetare, dezvoltare tehnologică și inovare (CDI) în sprijinul competitivității economice și dezvoltării afacerilor, Prioritatea de investiții: PI1b, Obiectiv Specific: 1.3, Acțiunea 1.2.1., Beneficiar: Life-Is-Hard, 2022-2023.	Membre	2	4	74
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2.6 Coordonare/dezvoltare laborator/centru cercetare				
Formula: 40				
Nr. crt.	Denumire laborator	Descriere	Pozitie	Punctaj
1	Sisteme Flexibile de Fabricație	Laboratorul conține 4 module de sisteme flexibile de fabricație, cu unități de transfer, manipuloare, senzorială, PLC-uri, o rețea de calculatoare, 40 licențe Visual Components, 40 licențe RoboDK. Dotarea a fost realizată din diverse proiecte de cercetare și atragere de sponsorizări.	Coordonator	40

40

CALCULUL PUNCTAJULUI PENTRU GRUPA A3

3.1 Vizibilitate în baze de date internaționale

3.1.1 Citări în articole indexate ISI

Formula: 10/nr. autori articol citat

Nr. crt.	Denumire lucrare	Lucrare care o citează	Nr. autori	Punctaj
1		Zhang X, Li L, Hu Z, Qi W, Zhang L, Hu Y, Su H, Ferrigno G, Momi ED. Novel Design and Lateral Stability Tracking Control of a Four-Wheeled Rollator. Applied Sciences. 2019; 9(11):2327. https://doi.org/10.3390/app9112327 link	2	5
2		Yuan, G., Xia, E., Dincer, H., Serhat Yuksek, S., The theory of inventive problem solving (TRIZ)-based strategic mapping of green nuclear energy investments with spherical fuzzy group decision-making approach, International Journal of Energy Research. 2021. https://doi.org/10.1002/er.6435	2	5
3		Harris, S.V. (2018). "SWOT analysis of Jamaican academic libraries in higher education", Library Management, Vol. 39 No. 3/4, pp. 246-278. https://doi.org/10.1108/LM-07-2017-0068 link	2	5

4	Brad, S., Brad, E., Enhancing SWOT Analysis with IRIZ-based Tools to Integrate Systematic Innovation in Early Task Design, <i>Procedia Engineering</i> , 131(2015), 616-625, Elsevier, 2015. Link	Sansa, M., s.a., A new approach for sustainable design scenarios selection: A case study in a Tunisian company, <i>Journal of Cleaner Production</i> , Volume 232, pp. 587-607, 2019, https://doi.org/10.1016/j.jclepro.2019.05.299 . Link	2	5
5		Zhang X., Li J., Hu Z., Qi W., Zhang L., Hu Y., Su H., Ferrigno G., Morni E.D. Novel Design and Lateral Stability Tracking Control of a Four-Wheeled Rollator. <i>Applied Sciences</i> , 2019; 9(11):2327. https://doi.org/10.3390/app9112327 link	2	5
6		Liu, Shuo-Fang, Yao-Jen Fan, Ding-Bang Luh, and Pei-Shan Teng, 2022, "Organizational Culture: The Key to Improving Service Management in Industry 4.0" <i>Applied Sciences</i> 12, no. 1: 437. https://doi.org/10.3390/app12010437 link	2	5
7		Liu, S.-F.; Fan, Y.-J.; Luh, D.-B.; Teng, P.-S., Organizational Culture: The Key to Improving Service Management in Industry 4.0. <i>Appl. Sci.</i> 2022, 12, 437. https://doi.org/10.3390/app12010437 link	2	5
7		Galati, E., s.a., Industry 4.0: Emerging themes and future research avenues using a text mining approach, <i>Computers in Industry</i> , Volume 109, August 2019, Pages 100-113 link	3	3.333333333
8		Kipper, L., s.a., Scopus scientific mapping production in Industry 4.0 (2011–2018): a bibliometric analysis, <i>International Journal of Production Research</i> , Volume 58, 2020 : Issue 6, link	3	3.333333333
9		G., R., Sreedharan V., R., P., A., Persis J. and K.M., S., (2019), "Industry 4.0: key findings and analysis from the literature arena", <i>Benchmarking: An International Journal</i> , Vol. 26 No. 8, pp. 2514-2542, https://doi.org/10.1108/BIJ-09-2018-0281 link	3	3.333333333
10		Juan Manuel Maquieira, José Moyano-Fuentes & Sebastián Brunque (2019) Drivers and consequences of an innovative technology assimilation in the supply chain: cloud computing and supply chain integration, <i>International Journal of Production Research</i> , 57:7, 2083-2103, DOI: 10.1080/00207179.2018.1530473 link	3	3.333333333

11	Sanderson, D., Chaplin, J.C. & Ratchev, S. A. Function-Behaviour-Structure design methodology for adaptive production systems, Int J Adv Manuf Technol 105, 3731–3742 (2019). https://doi.org/10.1007/s00170-019-03823-x link	3	3.333333333
12	Yves Barlette & Pamela Bailliet (2020) Big data analytics in turbulent contexts: towards organizational change for enhanced activity, Production Planning & Control, DOI: 10.1080/09537287.2020.1810755 link	3	3.333333333
13	Zhuning Bi, Yan Jin, Paul Maropoulos, Wen-Jun Zhang & Lihui Wang (2021) Internet of things (IIOT) and big data analytics (BDA) for digital manufacturing (DM), International Journal of Production Research, DOI: 10.1080/00207543.2021.1953181 link	3	3.333333333
14	Armando Calabrese, Manoj Dora, Nathan Levaldi Ghiron & Luigi Tiburzi (2020) Industry's 4.0 transformation process: how to start, where to aim, what to be aware of, Production Planning & Control, DOI: 10.1080/09537287.2020.1830315 link	3	3.333333333
15	Surajit Bag, Lincoln C. Wood, Armesh Telakkadri & V. G. Venkatesh (2021) Application of Industry 4.0 tools to empower circular economy and achieving sustainability in supply chain operations, Production Planning & Control, DOI: 10.1080/09537287.2021.1980902 link	3	3.333333333
16	Shreyanshu Parhi, Kanchan Joshi & Milind Akarte (2021) Smart manufacturing: a framework for managing performance, International Journal of Computer Integrated Manufacturing, 34:3, 227–256, DOI: 10.1080/0951192X.2020.1858506 link	3	3.333333333
17	Stephan Dreier, Andreas Egger, Louis Püschel & Maximilian Röglinger (2020) Prioritising smart factory investments – A project portfolio selection approach, International Journal of Production Research, DOI: 10.1080/00207543.2020.1849845 link	3	3.333333333

18	Brad, S., Murar, M., Brad, E., Design of Smart Connected Manufacturing Resources to Enable Changeability, Reconfigurability and Total-Cost-of-Ownership Models in the Factory-of-the-Future, International Journal of Production Research, 56 (6), 2018, 2269-2291 Link	Zheng, L., Ardolino, M., Bacchetti, A. and Perona, M. (2021), "The road towards industry 4.0: a comparative study of the state-of-the-art in the Italian manufacturing industry", Benchmarking: An International Journal, Vol. ahead-of-print No. ahead-of-print, https://doi.org/10.1108/BJI-01-2021-0056 link	3	3.333333333
19		Jagatheesaperumal, S.K., s.a., The Duo of Artificial Intelligence and Big Data for Industry 4.0: Review of Applications, Techniques, Challenges, and Future Research Directions, IEEE INTERNET OF THINGS JOURNAL, 2021 link	3	3.333333333
20		Vespoli, S., Guizzi, G., Gebennini, E. et al. A novel throughout control algorithm for semi-heterarchical industry 4.0 architecture, Ann Oper Res 201-221, (2022). https://doi.org/10.1007/s10479-021-04184-z link	3	3.333333333
21		Calabrese, A., Dora, M., Ghiron, N.L., Tiburzi, L., Industry's 4.0 transformation process: how to start, where to aim, what to be aware of, Production Planning and Control, 33(5), pp.492-500, 2022.	3	3.333333333
22		Barlette, Y., Bailette, P. Big data analytics in turbulent contexts: towards organizational change for enhanced agility, Production Planning and Control, 33(5), pp.492-500, 2022.	3	3.333333333
23		Dreyer, S., Egger, A., Prioritising smart factory investments - A project portfolio selection approach, International Journal of Production Research, 60(3), pp. 999-1015, 2022. link	3	3.333333333
24		Marcon, E., et. al., Capabilities supporting digital servitization: A multi-actor perspective, Industrial Marketing Management, 103, 97-116, 2022. link	3	3.333333333
25		Parhi, S., et. al., Decision making in smart manufacturing: a framework for performance measurement, International Journal of Computer Integrated Manufacturing, 35(1), pp. 1-15, 2022. https://doi.org/10.1080/0951197X.2022.2048420 link	3	3.333333333
26		Chen, Y. et al., Graph-based operational robustness analysis of Industrial Internet of things platform for manufacturing service collaboration, https://doi.org/10.1080/00207179.2021.2022802 , International Journal of Production Research, 2022. link	3	3.333333333

27	<u>Napoleone, A., et al. How the technologies underlying cyber-physical systems support the reconfigurability capability in manufacturing: a literature review.</u> https://doi.org/10.1080/00207543.2022.2074323 <u>International Journal of Production Research</u>, Narwane, X., et. al. Examining smart manufacturing challenges in the context of micro, small and medium enterprises. https://doi.org/10.1080/0951192X.2022.2078508, <u>International Journal of Computer Integrated Manufacturing</u>, 2022 link	3	3.333333333
28	<u>Sott, M.K., Furstenau, L.B., Kipper, L.M., Reckiegel, Rodrigues, Y.P., López-Robles, J.R., Giraldo, F.D. and Cobo, M.J. (2021) "Process modeling for smart factories: using science mapping to understand the strategic themes, main challenges and future trends". Business Process Management Journal, Vol. 27 No. 5, pp. 1391-1417. https://doi.org/10.1108/BPMJ-05-2020-0181 link</u>	3	3.333333333
29	<u>Stephan Dreier, Andreas Exzer, Louis Püschel & Maximilian Böglinger (2022) Prioritising smart factory investments – A project portfolio selection approach. International Journal of Production Research, 60:3, 999.</u> 1015, DOI: 10.1080/00207543.2020.1849845 link	3	3.333333333
30	<u>Armando Calabrese, Roberta Costa, Luigi Iburzi, Alexander Brem, Merging two revolutions: A human-artificial intelligence method to study how sustainability and Industry 4.0 are intertwined. Technological Forecasting and Social Change, Volume 188, 2023, 122265, ISSN 0040-1625, https://doi.org/10.1016/j.techfore.2022.122265, link</u>	3	3.333333333
31	<u>Shreyanshu Parhi, Kanchan Joshi & Milind Akarte (2023) Decision-making in smart manufacturing: A framework for performance measurement. International Journal of Computer Integrated Manufacturing, 36:2, 190.</u> 218, DOI: 10.1080/0951192X.2022.2048420 link	3	3.333333333

33		Ruchi Mishra, Rakesh Kr Singh & Anagappa Gunasekaran (2023) Digitalization of supply chains in Industry 4.0 environment of manufacturing organizations: conceptualization, scale development & validation, Production Planning & Control, DOI: 10.1080/ 09537287.2023.2172622 link	3	3.3333333333
34		Michela Delle Mura, Gino Dini, Improving ergonomics in mixed-model assembly lines balancing noise exposure and energy expenditure, CIRP Journal of Manufacturing Science and Technology, Volume 40, 2023, Pages 44-52, ISSN 1755-5817, https://doi.org/10.1016/j.cirpj.2022.11.005 link	3	3.3333333333
35		Trevor Ault, Thomas Bradley, Risk-based approach for managing obsolescence for automation systems in heavy industries, Systems Engineering, https://doi.org/10.1002/sys.21635 , Volume 25, Issue 6, November 2022, Pages 551-560 link	3	3.3333333333
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3.1.2 Citări în articole indexate BDI				
Formula: 5/nr. autori articol citat				
Nr. crt.	Denumire lucrare	Lucrare care o citează	Nr. autori	Punctaj
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Nr. crt.	Denumire lucrare	Lucrare care o citează	Nr. autori	Punctaj
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3.3 (a) Membru in colective de redactie sau comitete ştiinţifice ale revistelor şi manifestărilor ştiinţifice, organizator de manifestări ştiinţifice/(b) Recenzor pentru reviste şi manifestări ştiinţifice naţionale şi internaţionale indexate ISI 3.3.1 Indexate ISI Formula: 10				
Nr. crt.	a) reviste şi manifestări ştiinţifice, organizator de manifestări ştiinţifice b) recenzor pentru reviste şi manifestări ştiinţifice naţionale şi internaţionale indexate ISI	Poste	Punctaj	
1	International Conference on Quality and Innovation in Engineering and Management (QIEM 2011)	Recenzor	10	
2	International Conference on Quality and Innovation in Engineering and Management (QIEM 2012)	Recenzor	10	
3	International Conference on Quality and Innovation in Engineering and Management (QIEM 2014)	Recenzor	10	
4	International Conference on Quality and Innovation in Engineering and Management (QIEM 2016)	Recenzor	10	

5	International Conference on Quality and Innovation in Engineering and Management (QIEM 2021)	Recenzor	10
6	Interdisciplinary Research in Engineering: Steps Towards Breakthrough Innovation for Sustainable Development (INTERIN 2013)	Recenzor	10
7	Balkan Region Conference on Engineering and Business Education (BRCEE 2005)	Recenzor	10
8	Balkan Region Conference on Engineering and Business Education (BRCEE 2009)	Recenzor	10
9	Balkan Region Conference on Engineering and Business Education (BRCEE 2012)	Recenzor	10
10	World Conference TRIZ Future 2020 (TFC20)	Guest editor / Recenzor	10
			100

3.3 (a) Membru in colectivele de redacție sau comitete științifice ale revistelor și manifestărilor științifice, organizator de manifestări științifice/(b) Recenzor pentru reviste și manifestări științifice naționale și internaționale Indexate BDI

3.3.2 Indexate BDI

Formula: 8

Nr. crt.	a) reviste și manifestări științifice, organizator de manifestări științifice b) recenzor pentru reviste și manifestări științifice naționale și internaționale Indexate BDI	Postile	Punctaj
1	Balkan Region Conference on Engineering and Business Education (BRCEE 2019)	Recenzor	8
			8

3.6 Membru in academi, organizații, asociații profesionale de prestigiu, naționale și internaționale, apartenență la organizații din domeniul educației și cercetării

3.6.4 Asociații profesionale

3.6.4.1 Internaționale

Formula: 5

Nr. crt.	Asociația profesională	Postile	Punctaj
1	European TRIZ Association (ETRIA)	Membru	5
			5

3.6 Membru in academi, organizații, asociații profesionale de prestigiu, naționale și internaționale, apartenență la organizații din domeniul educației și cercetării

3.6.4 Asociații profesionale

3.6.4.2 Naționale

Formula: 3

Nr. crt.	Asociația profesională	Postile	Punctaj
1	Societatea de Robotică din România (SRR)	Membru	3
			3

3.4 Experiență de management, analiză și evaluare în cercetare și/sau învățământ

3.4.2 Membru - Indicator unitar: 2 *ani desfășurare

Nr. crt.	Denumire	Nr. ani de desfășurare	Punctaj
1	Membru în comisia de admitere la ciclul de licență – Facultatea Construcții de Mașini (2000 -2022)	20	40

2	Membri în cadrul Consiliului Facultății Construcții de Mașini / Facultății Inginerie Industrială, Robotică și Managementul Producției (perioada 2020-2023)	3	6
3	Membri în cadrul comisiei de diplomă master la specializarea Design Industrial (2011-2022)	11	22
4	Membri în cadrul comisiei de diplomă licență la specializarea Design Industrial (2011-2022)	11	22
		90	
