Universitatea Tehnică din Cluj-Napoca
Facultatea de Inginerie Industrială, Robotică și Managementul Producției
Departamentul Ingineria Proiectării și Robotică
Conf. univ. dr. ing. Emilia Brad

COMISIA INGINERIA ŞI MANAGEMENTUL PRODUCŢIEI
Standarde minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior și a gradelor profesionale de cercetare-dezvoltare

CONDIȚII PUNCTAJ PE GRUPE ȘI TOTAL

Nr. crt.	Criteriu	Indicatori	Punctaj minim abilitare	Rezultate
1	A1	Activitate didactică și profesională	130	213.33
2	A2	Activitate de cercetare	300	1391.40
3	A3	Recunoașterea impactului activității	100	366.11
		TOTAL	**530**	**1970.84**

CONDIȚII ÎN RAPORT CU CERINȚELE MINIMALE

Indice	Denumire	Cerințe minimale 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 in reviste si 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 responsabil, din care 3 director internaționale, 2 director naționale (toate proiectele cu mediul economic au încasări peste baremul de 25000 LEI)	Îndeplinit

GRUPA A1

Nr. cr.t	Domeniul activităților	Tipul activităților	Categorii și restricții	Subcategorii	Indicatori unitari	Rezultate	Punctaj
0	1	2	3	4	5	6	7
1	Activitate didactică și profesională (A1)	1.1.Cărţi/manuale/ monografii/ capitole în cărți de specialitate	1.1.1.Cărţi/manuale/ monografii/capitole de specialitate ca autor Condiție abilitare: minim 2 prim autor **ÎNDEPLINIT**	1111.internationale	nr. pagini/5*nr. autori	1 (coautor)	0.90
				1112.nationale (edituri recunoscute)	nr. pagini/10*nr. autori	2 (unic autor, prim autor)	63.85
			1.1.2.Carti ca editor	1121.internationale	nr. pagini/10*nr. editori	0	0
				1122.nationale	nr. pagini/20*nr. editori	0	0
		1.2.Alte materiale didactice - inclusiv în format electronic (pentru format electronic - echivalent format A4 text fără figuri cu minimum 3200 caractere inclusiv spații)	1.2.1. Suporturi de curs/Îndrumare Condiție abilitare: minim 4, din care 2 prim autor **ÎNDEPLINIT**		nr. pagini/20*nr. autori	5 (2 unic autor, 3 coautor)	38.58
		1.3. Coordonare de programe de studii, organizare si coordonare programe de formare continua	Director/ Responsabil		15	0	0
		1.4 Dezvoltare de noi discipline (se punctează o singură dată în cazul multiplicării lor în programe de studii diferite)	Titular		10	4	40
		1.5 Proiecte educaționale (ERASMUS, Leonardo etc.)	Director/ Responsabil		10 * (ani desfășurare)	5	70

CALCULUL PUNCTAJULUI PENTRU GRUPA A1

1.1.Cărţi/manuale/monografii/capitole în cărţi de specialitate
1.1.1.Cărţi/manuale/monografii/capitole de specialitate ca autor
1111.Internationale
Formula: nr. pagini/5*nr. autori

Nr. crt.	Titlu	Tip	Poziție	Nr. pagini	Nr. autori	Punctaj
1	Brad, S., **Brad, E.,** Chapter 6 *Quantifying and Leading Innovation with TRIZ within Competitiveness Strategies*, in: Advances and Impacts of the Theory of Inventive Problem Solving (ed. S. Koziołek, L. Chechurin, M. Collan), 65-74, Springer, ISBN 978-3-319-96531-4, ISBN 978-3-319-96532-1 (eBook), https://doi.org/10.1007/978-3-319-96532-1, 2018.	Capitol	Coautor	9	2	0.90

1.1.Cărţi/manuale/monografii/capitole în cărţi de specialitate
1.1.1.Cărţi/manuale/monografii/capitole de specialitate ca autor
1112.Nationale (edituri recunoscute)
Formula: nr. pagini/10*nr. autori

Nr. crt.	Titlu	Tip	Poziție	Nr. pagini	Nr. autori	Punctaj
1	**Brad, E.,** *Fabricația Reconfigurabilă și Elemente de Proiectare a Echipamentelor de Fabricație Reconfigurabile*, Ed. U.T. Press, ISBN 978-973-662-876-4, 526 pg., 2013.	Carte	Unic autor	526	1	52.60
2	**Brad, E.,** Stan, A., *Eco-Ergo Design*, Ed. UT Press, ISBN 978-606-737-425-4, 225 pg., 2020	Carte	Prim autor	225	2	11.25

1.2.Alte materiale didactice
1.2.1. Suporturi de curs/Îndrumare
Formula: nr. pagini/20*nr. autori

Nr. crt.	Titlu	Tip	Poziție	Nr. pagini	Nr. autori	Punctaj
1	**Brad, E.,** *Sisteme Flexibile de Fabricație,* Cluj-Napoca, Ed. UT PRES, ISBN 973–662–162–6, 90 pg., 2005.	Îndrumar	Unic autor	90	1	4.50
2	Brad, S., **Brad, E.,** Mocan, B., *Basic Tools of Competitive Design in Robotics,* Cluj-Napoca, Ed. UT PRES, ISBN 973–662–161–8, 120 pg., 2005 (în limba engleză).	Îndrumar	Coautor	120	3	2.00
3	Brad, S., Mocan, B., Duca, A., **Brad, E.,** *Robotizarea Asistată de Calculator a Fabricației*, Ed. UT Press, ISBN 978-973-662-361-5, 220 pg., 2008.	Îndrumar	Coautor	220	4	2.75
4	**Brad, E.,** *Bazele Sistemelor Flexibile de Fabricație și Elemente de Fabricație Suplă (Lean)*, 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., *Tools and Methods of Competitive Design in Robotics*, Editura UT Press, ISBN 978-606-737-067-6, 183 pg., Cluj-Napoca, 2015. (în limba engleză)	Îndrumar	Coautor	183	4	2.28

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	Poziție	Specializare	Punctaj
1	Sisteme Flexibile de Fabricație	BSc	Titular	Robotică	10
2	Mașini Unelte și Echipamente de Fabricație	BSc	Titular	Robotică	10
3	Eco-Ergo Design	MSc	Titular	Design Industrial	10
4	Proiectarea Orientată a Sistemelor de Fabricație (Lean)	MSc	Titular	Proiectarea Asistată de Calculator a Sistemelor de Fabricație	10

1.5 Proiecte educaționale (ERASMUS, Leonardo etc.)
Formula: 10 * (ani desfășurare)

Nr. crt.	Titlu proiect	Tip proiect	Poziție	Nr. ani	Punctaj
1	*Centru Regional Virtual de Perfecţionare şi Transfer Tehnologic în Metode Moderne de Proiectare şi Fabricaţie",* cod: 00PH1671, derulat în cadrul Universităţii Tehnice din Cluj-Napoca în perioada 2003-2004	Phare	Responsabil	2	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 010B, derulat în cadrul Universității din Cluj-Napoca în perioada 2005-2006	Phare	Responsabil	1	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	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
5	*Cluj Future of Work*, 2018-2021, https://uia-initiative.eu/en/uia-cities/clujnapoca	UIA	Responsabil	1	10

GRUPA A2

Nr. cr.t	Domeniul activităților	Tipul activităților	Categorii și restricții	Subcategorii	Indicatori unitari	Rezultate	Punctaj
0	1	2	3	4	5	6	7
2	Activitate de cercetare (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 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 in reviste si 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	176.50
		2.3 Articole in extenso in reviste/volumele unor manifestări științifice naționale/internaționale neindexate			6/ nr. de autori (Reviste) 4/nr. de autori (Volume conferințe)	10, din care 9 conferințe	14.79
		2.4 Proprietate intelectuală, brevete de invenție și inovație, etc	2.4.1 internaționale		40/nr. de autori	0	0
			2.4.2 naționale		20/nr. de autori	0	0

Nr. cr.t	Domeniul activităților	Tipul activităților	Categorii și restricții	Subcategorii	Indicatori unitari	Rezultate	Punctaj
0	1	2	3	4	5	6	7
		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)	2.5.1 Director/ Responsabil Abilitare minim 2D sau 4R **ÎNDEPLINIT** Pentru cerințele minimale, în cazul proiectelor de cercetare/inovare 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, suma care revine instituției din partea căreia este Responsabil calculată la cursul de schimb oficial la data contractării.	2.5.1.1 internaționale	20* val/ (10 mii €)	3 director 2 responsabil	706.47
				2.5.1.2 naționale	10* val/ (10 mii €)	2 director 1 responsabil	37.87

Nr. cr.t	Domeniul activităților	Tipul activităților	Categorii și restricții	Subcategorii	Indicatori unitari	Rezultate	Punctaj
0	1	2	3	4	5	6	7
			2.5.2 Membru in echipă	2.5.2.1 internaționale	4*nr. ani participare in proiect	2	8.00
				2.5.2.2 naționale	2*nr. ani participare in proiect	18	60.00
		2.6 Coordonare/dezvoltare laborator/centru cercetare	Responsabil Dacă laboratorul este și didactic, punctajul se ia în calcul o singură dată		40	1	40.00

CALCULUL PUNCTAJULUI PENTRU GRUPA A2

2.1 Articole indexate în reviste ISI Formula: 30 + 10 * Factor Impact în anul publicării) / (nr. de autori)				
Nr. crt.	**Lucrare**	**F.I.**	**Nr. autori**	**Punctaj**
1	Popescu, S., Dragomir, M., Pitic, D., **Brad, E.,** *Method for Competitive Environmental Planning*, Environmental Engineering and Management Journal, FI 1.004, ISSN 1582-9596, vol. 11, issue 4, pg. 823-828, 2012 [Q3]	1.004 (2012)	4	32.51
2	Brad, S., Mocan, B., **Brad, E.,** Fulea, M., *Environmentally Sustainable Economic Growth*, Amfiteatru Economic, 18(42), 446-460, 2016 [Q3]	0.564 (2016)	4	31.41
3	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, 10.1080/00207543.2017.1400705 [Q1]	8.568 (2020) 3.68 (2018)	3	42.26
4	Brad, S., Murar, M., Vlad, G., **Brad, E.,** Popanton, M., *Lifecycle Design of Disruptive SCADA Systems for Waste-Water Treatment Installations*, Sustainability, 2021, 13, 4950. [Q2]	3.251 (2021)	5	36.50
5	**Brad, E.,** Brad, S., *Algorithm for Designing Reconfigurable Equipment to Enable Industry 4.0 and Circular Economy-Driven Manufacturing Systems*. Applied Sciences. 2021, 11, 4446 [Q2]	2.679 (2021)	2	43.39
6	**Brad, E.,** Brad, S. *Requirements Analysis in Disruptive Engineering Solutions Using the Paradigm of Living Systems*. *Appl. Sci.* 2021, *11*, 9854 [Q2]	2.679 (2021)	2	43.39

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.,** Ioaneş, C., *Method for Planning Multitasking Robot Application Programs in RAPID*, 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	8.33
2	Brad, S., Murar, M., **Brad, E.,** *Methodology for Lean Design of Disruptive Innovations*, Procedia CIRP, Elsevier, 50(2016), 153-159, 2016	3	8.33
3	Brad, S., Mocan, B., **Brad, E.,** Fulea, M., *TRIZ to Support Blue-design of Products,* Procedia CIRP, 39 (2016), 125-131, 2016	4	6.25
4	**Brad, E.,** Sârb, A., Popa, R.M., Timoftei, S., *Techniques for Ensuring Cost Savings and Environment Protection in Buildings*, Acta Technica Napocensis - Series: Applied Mathematics, Mechanics, and Engineering, Vol 61, No 4, pp. 647-656, 2018	4	6.25
5	**Brad, E.,** Sârb, A., *Applying TRIZ and CMFD to Design Sustainable, Intelligent, and Inclusive Buildings*, Acta Technica Napocensis - Series: Applied Mathematics, Mechanics, and Engineering, Vol 64, No 3, pp. 543-550, 2021	2	12.50

6	Mocan, B., Brad, S., Fulea, M., Murar, M., **Brad, E.,** *Safety Management within a Robotic Manufacturing Systems through Layout Design*, Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, ISSN: 1221-5872, WOS: 000451702200018, pp. 137-146, 2018	5	5.00
7	Timoftei, S., **Brad, E.,** Sârb, A., Stan, O. *Open-source Software in Robotics*, 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., *Designing the Usability of an Innovation Management Assessment Software Platform*, 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.,** Fenișer C., Vaida, C., Filip, D, *Integration of Industrial Robots in Fine Arts Applications: Algorithms and a Case Study with ABB Robot Technology*, 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	5.00
10	Brad, S., **Brad, E.,** Mocan, B., *Bringing the Edge of Competitiveness into Engineering Design Education*, 5th Balkan Region Conference on Engineering and Business Education, Sibiu, ISSN 183-6730, 363-368, 2009	3	8.33
11	Brad, S., Fulea, M., Mocan, B., **Brad, E.,** *Systematic Innovation for Improving Competitiveness of a Master Study Programme*, 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., Ilies, A., Brad, S., **Brad, E.,** Mocan, B., Murar, M., *An Innovative Approach on Prioritizing Internal Improvement Projects within* SMEs, 3rd Int. Conf. on Quality and Innovation in Engineering and Management, 978-973-662-978-5, Cluj-Napoca, 209-214, 2014	6	4.16
13	Mocan, B., Fulea, M., **Brad, E.,** Brad, S., *State-of-the-Art and Proposals on Reducing Energy Consumption in the Case of Industrial Robotic Systems,* 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., *Vectors of Innovation for Balancing Economic Growth and Sustainable Development*, Proceedings, BASIQ Int. Conference, ISSN 2457-483X, Bucharest, 457-464., 2015	4	6.25
15	Brad, S., **Brad, E.,** *Lean Innovation of Course Unit Content*, 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	12.50
16	Brad S., **Brad E.,** Homorodean D. *CALDET: A TRIZ-Driven Integrated Software Development Methodology*. In: Benmoussa R., De Guio R., Dubois S., Koziołek S. (eds) New Opportunities for Innovation Breakthroughs for Developing Countries and Emerging Economies. 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	8.33

17	Chiorean, A., Brad, S., **Brad, E.** *Knowledge Modelling of E-maintenance in Industrial Robotics,* Interdisciplinary Research in Engineering: Steps Towards Breakthrough Innovation for Sustainable Development, Advanced Engineering Forum, vol. 8-9, pp. 603-610, DOI 10.4028/www.scientific.net/AEF.8-9.603, 2013	3	8.33

2.2 Articole în reviste si 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., *Competitive Engineering in Product Redesign*, Acta Technica Napocensis (B), Series: Applied Mathematics and Mechanics, No. 50, vol. I/2007, ISSN 1221-5872, pg. 39-44, 2007	3	5.00
2	Brad, S., **Brad, E.,** *Designing Trends in Robotics - Design for Excellence*, Int. Conference ICMAS'2002, Bucureşti, 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	7.50
3	Brad, S., **Brad, E.**, *Quantifying the Market Potential of an Innovative Product Idea*, Acta Technica Napocensis (B), Series: Applied Mathematics and Mechanics, ISSN 1221-5872, 51(1): 7-12, 2008	2	7.50
4	Brad, S.**,** Fulea, M., Mocan, B., Duca, A., **Brad, E.,** *Software Platform for Supporting Open Innovation*, 2008 IEEE-TTTC International Conference AQTR, ISBN 1-4244-0361-8, SCOPUS, IEEE Xplore, 224-229, 2008	5	3.00
5	Brad, S., Fulea, M., **Brad, E.,** Mocan, B., *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*, Informatica Economica (B+), ISSN 1453-1305, 13(4): 75-89, 2009	4	3.75
6	Brad, S., **Brad, E.,** *Quality Planning in Robotized Manufacturing Systems*, ROBTEP 2006 8th Int. Conference, Košice, Acta Mechanica Slovaca, ISSN 1335-2393, pg. 63-69, 2006	2	7.50
7	Brad, S., Fulea, M., **Brad, E.,** *A PSS Approach in Software Development*, 2nd CIRP IPS^2 Conference 2010 on Product-Service Systems, Linkoping, Suedia, ISBN 978-91-7393-381-0, 291-298, 2010. (conferinţă nivel A)	3	5.00
8	Brad, S., **Brad, E.,** Mocan, B., *Concurrent Approach for Multiple Eco-function Design*, 17th CIRP International Conference on Life Cycle Engineering, Hefei, China, ISBN 978-7-5650-0186-4, 236-241, 2010. (conferinţă nivel A)	3	5.00
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	7.50
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	7.50
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	7.50
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	7.50

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	5.00
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	7.50
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	7.50
16	Brad, S., Chioreanu, A., Fulea, M., Mocan, B., **Brad, E.,** *Reconfigurability Function Deployment in Software Development*, Informatica Economică, 15(2): 130-141, 2011	5	3.00
17	**Brad, E.,** *Indicatori de Evaluare a Eficacității Proceselor Organizaționale în Contextul Sistemelor de Management al Calității*, Calitatea AS, ISSN 1582-2559, SCOPUS, vol. 12, nr. 4, pg. 7-12, 2011	1	15.00
18	**Brad, E.,** Pitic, L., *Conducerea Inovației de Proces Utilizând o Abordare de Tip Control Adaptiv şi Costurile Calității*, Calitatea AS, SCOPUS, ISSN 1582-2559**,** vol. 12, nr. 124, pg. 19-26, 2011	2	7.50
19	Brad, S., **Brad, E.,** Mocan, B., *Framework for Eco-Innovative Design with Application in Low Voltage Electric Appliance Industry*, International Journal of Environmental Technology and Management, Inderscience Enterprises (SCOPUS), vol. 14, nr. 5/6, pg. 379-396, ISSN 1466-2132, 2011	3	5.00
20	Brad, S., Mocan, B., **Brad, E.,** Mocan, M., *Economic Development of Peripheral/Lagging Zones through Smart Innovation*, 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., *Leading Innovation to Improve Complex Process Performances by Systematic Problem Analysis with TRIZ*, Procedia Engineering, 131(2015), 1121-1129, Elsevier, 2015	4	3.75
22	Brad, S., **Brad, E.,** *Enhancing SWOT Analysis with TRIZ-based Tools to Integrate Systematic Innovation in Early Task Design*, Procedia Engineering, 131(2015), 616-625, Elsevier, 2015	2	7.50
23	Brad, S., Fulea, M., **Brad, E.,** Mocan, B., *Smart Deployment of Demonstrators into Commercial Successful* Solutions, Procedia CIRP, Elsevier, DOI: 10.1016/j.procir.2014.03.137, vol. 21, 503-508, 2014	4	3.75
24	Brad, S., **Brad, E.,** *Directed Innovation of Business Models*, International Journal of Management, Knowledge and Learning, SCOPUS, 5(1), 97-119, 2016	2	7.50
25	Fulea, M., **Brad, E.,** Mocan, B., Brad, S., *Managing Emotional Aspects of PSS Functionalities for Sustainability*, 5th CIRP Int. Conf. on Industrial Product Service Systems, Bochum, Germany, March 14-15, in: Product-Service Integration for Sustainable Solutions, 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.,** *Enhancing SWOT Analysis with TRIZ-based Tools to Integrate Systematic Innovation in Early Task Design*, Elsevier, TRIZ Future Conference, Paris, SCOPUS, pg. 91-100, 2013	2	7.50
27	Fulea, M., Popescu, S., **Brad, E.,** Mocan, B., Murar, M., *A literature survey on reconfigurable industrial robotic work cells*, Robotics 2014, Bucharest, SCOPUS, 2014	5	3.00
28	Brad, S., **Brad, E.,** Crisan, L., Crisan A., *Framework for Planning Polycentric Innovation in High-tech Dynamic Industries*, the 23rd International Conference on Production Research (ICPR23), SCOPUS, Manila, 2-6 August, 2015	4	3.75

29	**Brad E.,** Brad S., *Value Chain Planning in Cross-Industry Meta-Cluster Initiatives*, Balkan Region Conference on Engineering and Business Education, Sciendo, vol. 1(1), DOI: 10.2478/cplbu-2020-0030, pp. 256-264, ISSN 2391-8160, 2019	2	7.50

2.3 Articole in extenso in reviste neindexate Formula: 6/nr. de autori			
Nr. crt.	**Lucrare**	**Nr. autori**	**Punctaj**
1	Popescu, S., **Brad, E.,** *Cercetări Privind Asigurarea Calităţii în Dezvoltarea Procedeelor de Studiu al Pieţei*, Cluj-Napoca, Revista Casa Calităţii, nr. 2/1999, pg. 41-48, 1999	2	3.00

2.3 Articole in extenso în volumele unor manifestări științifice naționale/internaționale neindexate Formula: 4/nr. de autori			
Nr. crt.	**Lucrare**	**Nr. autori**	**Punctaj**
1	Brad, S., Blebea, I., **Brad, E.,** *3D Computer Graphics Simulation of Inverse Kinematics in a Constrained Space and Direct Kinematics for an Anthropomorphic Robot Arm with 5 DOF*, Proceedings of the 4th Int. Workshop RAA'95, Portschach, Austria, vol.I, pg.63-66, 1995.	3	1.33
2	Popescu, S., Berce, P., Tătaru, O., Brad, S., **Brad, E.,** *Quality Analysis of the Research Management Within Technical University of Cluj-Napoca*, Proceedings of the 9th International DAAAM Symposium, Cluj-Napoca, oct., pg. 405-406, 1998	5	0.80
3	Galis, M., **Brad, E.,** Brad, S., *An Approach for Conceptual Design of FMS Layout Using a Multi-Criteria & Multi-Objective Decision Technique*, Proceedings of the 5th International MTeM Symposium, Cluj-Napoca, oct.2001, Ed. Alma Mater, ISBN 973-85354-1-7, pg. 207-210, 2001	3	1.33
4	Brad, S., **Brad, E.,** *Quality Through Course Unit Design: A Point of View on Quality Assurance in Higher Education*, Proceedings Int. Cong. MTeM'03, Cluj-Napoca, Ed. Roprint, ISBN 973-656-490-8, pg. 77-80, 2003	2	2.00
5	Crişan, L., **Brad, E.,** Hurgoiu, D., Checicheş, D., *Quality Improvement of Violin Surfaces Using 3D Scanning Equipment*, microCAD International Conference, March 2004, Miskolc, Hungary, ISBN 963 661 618 3, pg. 43-48, 2004	4	1.00
6	Crişan, L., Lantoş, M., **Brad, E.,** Grozav, S., *Quality Improvement of ROMBAT Pilot 12-55 Battery Using FMEA Method*, microCAD International Conference, March 2004, Miskolc, Hungary, ISBN 963 661 618 3, pg. 49-55, 2004	4	1.00
7	Brad, S., Mocan, B., **Brad, E.,** *Innovative Approach for Better Planning the Design Process of Quality Management Systems According to ISO 9001:2000 Standard*, Proceedings Int. Conf. of Production Engineering "Development and Modernization of Production" RIM05, Bihac, Bosnia-Herzegovina, ISBN 99589262-0-2, pg. 431-436, 2005	3	1.33
8	Brad, S., Fulea, M., Mocan, B., **Brad, E.,** *An Innovative Intelligent Software Application for Quality Cost Management*, Int. Conf. MTeM05, Cluj-Napoca, ISBN 973-9087-83-3, pg. 177-120, 2005	4	1.00

9	**Brad, E.,** Brad, S., *Design for Reconfiguration of Production Equipments*, Proceedings of the 6th 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	2.00

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	Poziție	Tip	Buget în UTCN	Punctaj
1	**Brad, E.** Chiș. I., Stan, A., ș.a. Proiect COSME: *BISNet Transylvania,* cod 831296, Finanţator: Comisia Europeană, Universitatea Tehnică din Cluj-Napoca, 2019	Director	COSME	Suma intrata: 24.248,40 €	48.49
2	**Brad, E.** Chiș. I., Stan, A., ș.a. Proiect COSME: *BISNet Transylvania,* cod 880115, Finanţator: Comisia Europeană, 2021	Director	COSME	Suma intrata: 63.858,20 €	127.72
3	Brad, S., **Brad, E.,** Fulea M., Chioreanu, A., Mocan, B., *IT Tool to Support SMEs in Systematic Innovation, Based on Consolidated Methodology and Innovation Knowledge Domain Structured through Specific Ontologies*, Acronim: TECH-IT-EASY, proiect FP7, Call SME-2008-1, Cod: 232410, 2009-2011	Responsabil	FP7	Suma intrata: 217.798,00 €	435.59
4	Brad, S., **Brad, E.,** Fulea M., Mocan, B., *Demonstrating the Industrial Validity and Market Feasibility of IT Tool to Support SMEs in Systematic Innovation Processes*, Acronim: MARKET-IT, Proiect FP7, Call SME-2011, Cod: 311517, 12012-2014	Responsabil	FP7	Suma intrata: 40.049,38 €	80.09
5	**Brad, E.** Mocan, B., Fulea, M., Brad, S., Redesign the Robotic Fences for Fast Installation, finanțator: CSi Industries B.V. Holland, Grant Agreement no. 28343/10.11.2015, 2015-2016.	Director	Mediul economic	Suma intrata: 7.290,00 €	14.58

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	Poziție	Tip	Buget în UTCN	Punctaj
1	**Brad, E.** Fulea, M., Mocan, B., ș.a., *Optimizarea unei linii automatizate de fabricație pentru materiale de construcții*, Contract nr. 1735 / 22.10.2012, Beneficiar SC Îndemânarea Prodcom Bistrița, 2012-2013	Director	Mediul economic	40.000,00 LEI 1 EURO = 4.5757 LEI la 22.10.2012	8.74

2	**Brad, E.,** ș.a, *Sistem de management a inovării conform cu SR CEN TS 16555*, nr. 72/ 28.12.2018, Beneficiar: PRODIMA, 2018-2019	Director	Mediul economic	53.550,00 LEI 1 EURO = 4.6581 LEI la 28.12.2018	11.51
3	Brad, S., **Brad, E.** ș.a. *Elaborarea strategiei de dezvoltare a județului Bistrița-Năsăud pentru perioada 2014-2020*, Contract nr. 212/15.11.2012, Beneficiar Consiliul Județean Bistrița-Năsăud, 2013	Responsabil	Mediul economic	79.968,00 LEI 1 EURO = 4.5379 LEI la 15.11.2012	17.62
4	Brad, S., **Brad, E.,** s.a., *Concepția, proiectarea, execuția, testarea experimentală și optimizarea unui echipament inteligent și conectat în rețea pentru sublimarea acidului benzoic din rășinile plantei Styrax*, nr. 2366/28.01.2020, beneficiar: Plantextrakt, Cluj-Napoca, 2020-2021	Responsabil	Mediul economic	În curs de implementare (nu îl raportez momentan)	0

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	Poziție	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, finanţator: Kugler GmbH, Germania, 2005	Membru	1	4.00
2	Brad, S., **Brad, E.,** ș.a., Cybersecurity Counter, Acronym: GEIGER, Code: 883588, H2020, 2020-2023	Membru	1	4.00

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	Poziție	Nr. ani	Punctaj
1	Popescu, S., …, **Brad, E.,** …., *Instrumente şi metode moderne ale ingineriei şi managementului calităţii în sprijinul reformei instituţiilor şi economiei româneşti,* Banca Mondială / CNCSIS, tip D, nr. 104/8616/09.08.2000	Membru	1	2.00
2	Popescu, S., …, **Brad, E.,** …, *Cercetări privind dezvoltarea şi implementarea metodelor specifice asigurării în managementul cercetării universitare,* Contract nr. 673/2000, Beneficiar: CNCSIS, 2000	Membru	1	2.00
3	Brad, S., **Brad, E.,** s.a., *Cercetări privind proiectarea pentru excelenta in robotica*, Contact 33531 /2002-2003, Tema 27, Beneficar CNCSIS, 2002-2003	Membru	2	4.00

4	Brad, S., **Brad, E.,** s.a., *Cercetări privind dezvoltarea competitivă şi implementarea unui sistem de management al calităţii la nivelul proceselor de fabricaţie robotizate în conformitate cu standardul ISO 9001:2000,* Proiect finanţat prin programul PNCDI-CALIST, Subprogram 4-MMC, Contract 4404/31.07.03 MECT, 2003-2004	Membru	2	4.00
5	Brad, S., **Brad, E.,** s.a., *Cercetări privind proiectarea pentru reconfigurabilitate a echipamentelor de fabricaţie*, Contract CNCSIS, Tema At2/96, Beneficiar CNCSIS, 2004-2005	Membru	2	4.00
6	Ciupan, C., …, **Brad, E.,** …, *Proiectarea unei maşini de debitare cu jet de apă-abraziv cu amplificator de presiune inclus în capul de tăiere,* Contract nr. 33385/2004, Tema 16/877, Beneficiar: CNCSIS, 2004	Membru	1	2.00
7	Brad, S., **Brad, E.,** s.a., *e_QOST: Sistem informatic inovativ pentru monitorizarea, controlul si planificarea costurilor referitoare la calitate*, Cod 5402, PNCDI-CALIST, 2004-2006	Membru	2	4.00
8	Brad, S., **Brad, E.,** s.a., *Instrumente avansate pentru managementul complexităţii procesului de concepţie / sinteză a produselor radical inovative*, Contact tip A, Tema A3, Cod 1285, Beneficiar CNCSIS, 2006-2007	Membru	2	4.00
9	Brad, S., **Brad, E.,** s.a., *Creşterea Performanţelor de Calitate în Cadrul Proceselor Cooperative din IMM-uri prin Sisteme Expert în Ingineria şi Managementul Inovaţiei*, acronim INOVEX, Contract CEEX II nr. 140/02.10.2006, ANCS, Cod. 628, 2006-2008	Membru	2	4.00
10	Berce, P., Brad, S., Popescu, S., … **Brad, E.,** ş.a. *Platformă Integrată de Cercetare și Formare pentru Producția Inovativă: Fabrica Viitorului*. Platformă de cercetare, finanţator: MEC/CNCSIS, 2006-2008	Membru	2	4.00
11	Fulea, M., Brad, S., Mocan, B., **Brad, E.,** ș.a. *Integrated Innovation Management Systems for SMEs*, acronim: InnDrive, finanțator: ANCS, Cod: PNIIPTPCCA201341319, (Sistem Integrat de Management al Inovarii in IMM-uri – innDrive, PCCA/341/2014), 2014-2017	Membru	3	6.00
12	Brad, S. **Brad, E.,** s.a., *Elaborarea pe principii de competitivitate a strategiei de dezvoltare durabila pentru judetul Bistrita-Nasaud,* Contract 32/21.05.2002, Beneficiar CCIA Bistrita, 2002	Membru	1	2.00
13	Brad, S. **Brad, E.,** ș.a., *Elaborarea unui model de evaluare eficienta a excelentei organizationale in cazul IMM-urilor din regiune in vederea estimarii potentialului acestora de a dezvolta afaceri durabile la nivel european,* Contract 2/A.E.C.E. / 12.09.2002, Beneficiar CCIA Bistrita, 2002	Membru	1	2.00
14	Brad, S. **Brad, E.,** ș.a., *Proiectarea competitiva a unei platforme software personalizate pentru managementul costurilor referitoare la performanta proceselor sistemului de afaceri la SC ChimComplex SA Borzesti*, nr. 125/02.12.2004, Beneficiar SC ChimComplex SA Borzesti, 2004-2006	Membru	2	4.00
15	Feniser, C., **Brad, E.,** s.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	Membru	3	6.00
16	Brad, S., **Brad, E.,** s.a., *Servicii de analiza si suport tehnic in digitalizarea monitorizării operării Centrului de Management Integrat al Deșeurilor* (*nr. 44804)* din data de 29.12.2020*,* Beneficiar: CJ Cluj, 2021	Membru	1	2.00
17	Brad, S., **Brad, E.,** Crăciun, S,, *Certificare in regim voluntar a produsului ROLA 108 V*, cod: 24204/ 13.09.2019. Beneficiar: PRODIMA, Bistrița, 2019	Membru	1	2.00

18	Brad, S., **Brad, E.** , s.a., *Proiectare si optimizare platforma subterana de colectare a deseurilor*, nr. 6135/08.03.2019, Sky Park Systems SRL, Cluj-Napoca, 2019	Membru	1	2.00

2.6 Coordonare/dezvoltare laborator/centru cercetare
Formula: 40

Nr. crt.	Denumire laborator	Descriere	Poziție	Locație	Punctaj
1	Sisteme Flexibile de Fabricație	Laboratorul conține 4 module de sisteme flexibile de fabricație, cu unități de transfer, manipulatoare, senzorică, 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	B-dul Muncii, D16	40

GRUPA A3

Nr. cr.t	Domeniul activităților	Tipul activităților	Categorii și restricții	Subcategorii	Indicatori unitari	Rezultate	Punctaj
0	1	2	3	4	5	6	7
3	Recunoașterea și impactul activității (A3)	3.1 Vizibilitate în baze de date internaționale	Număr de citări în publicații (fără autocitări)	3.1.1 Citări în articole indexate ISI	10/nr. autori articol citat	46	141.44
				3.1.2 Citări în articole indexate BDI	5/nr. autori articol citat	34	56.12
				3.1.3 Citări în alte publicații	3/nr. autori articol citat	53	52.55
		3.2 Prezentări efectuate ca invitat/invitată în plenul unor manifestări științifice naționale și internaționale și Profesor invitat (exclusiv Erasmus)		3.2.1 Internaționale	20	0	0
				3.2.2 Naționale	10	0	0
		3.3 (a) Membru în 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 ISI	Punctajul se ia în calcul o singură dată pentru o revistă sau o manifestare științifică	3.3.1 Indexate ISI	10	10	100
				3.3.2 Indexate BDI	8	1	8
				3.3.3 Naționale și internaționale neindexate	5	0	0
		3.4 Experiența de management, analiză și evaluare în cercetare și/sau învățământ		3.4.1 Conducere	5*ani desfășurare	0	0
				3.4.2 Membru	2*ani desfășurare	0	0

Nr. cr.t	Domeniul activităților	Tipul activităților	Categorii și restricții	Subcategorii	Indicatori unitari	Rezultate	Punctaj
0	1	2	3	4	5	6	7
		3.5 Premii		3.5.1 Academia Română	30	0	0
				3.5.2 ASAS, AOSR, academii de ramură și CNCSIS	15	0	0
				3.5.3 Premii internaționale	10	0	0
				3.5.4 Premii naționale in domeniu	5	0	0
		3.6 Membru in academii, organizații, asociații profesionale de prestigiu, naționale si internaționale, apartenență la organizații din domeniul educației și cercetării	3.6.1 Academia Română		100	0	0
			3.6.2 ASAS, AOSR si academii de ramura		20	0	0
			3.6.3 Conducere asociații profesionale	3.6.3.1 internaționale	30	0	0
				3.6.3.2 naționale	10	0	0
			3.6.4 Asociații profesionale	3.6.4.1 internaționale	5	1	5
				3.6.4.2 naționale	3	1	3
			3.6.5 Organizații în domeniul educației și cercetării	3.6.5.1 Conducere	10	0	0
				3.6.5.2 Membru	5	0	0

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	Brad, S., **Brad, E.,** *Enhancing SWOT Analysis with TRIZ-based Tools to Integrate Systematic Innovation in Early Task Design*, Procedia Engineering, 131(2015), 616-625, Elsevier, 2015. Link	Zhang X, Li J, 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	5.00
2		Yuan, G., Xie, F., Dinçer, H., Serhat Yüksel, 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 link	2	5.00
3		Harris, S.Y. (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	5.00
4		Sansa, M., s.a., A new approach for sustainable design scenarios selection: A case study in a Tunisian company, Journal of Cleaner Production, Volume 232, pp. 587-607, 2019, https://doi.org/10.1016/j.jclepro.2019.05.299, link	2	5.00
5		Zhang X, Li J, 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	5.00
6	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	Galati, F., s.a., Industry 4.0: Emerging themes and future research avenues using a text mining approach, Computers in Industry, Volume 109, August 2019, Pages 100-113 link	3	3.33
7		Kipper, L., s.a., Scopus scientific mapping production in industry 4.0 (2011–2018): a bibliometric analysis, International Journal of Production Research, Volume 58, 2020 - Issue 6, link	3	3.33
8		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", *Benchmarking: An International Journal*, Vol. 26 No. 8, pp. 2514-2542. https://doi.org/10.1108/BIJ-09-2018-0281 link	3	3.33

9		Juan Manuel Maqueira, José Moyano-Fuentes & Sebastián Bruque (2019) Drivers and consequences of an innovative technology assimilation in the supply chain: cloud computing and supply chain integration, International Journal of Production Research, 57:7, 2083-2103, DOI: 10.1080/00207543.2018.1530473 link	3	3.33
10		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	3.33
11		Yves Barlette & Paméla Baillette (2020) Big data analytics in turbulent contexts: towards organizational change for enhanced agility, Production Planning & Control, DOI: 10.1080/09537287.2020.1810755 link	3	3.33
12		Zhuming Bi, Yan Jin, Paul Maropoulos, Wen-Jun Zhang & Lihui Wang (2021) Internet of things (IoT) and big data analytics (BDA) for digital manufacturing (DM), International Journal of Production Research, DOI: 10.1080/00207543.2021.1953181 link	3	3.33
13		Armando Calabrese, Manoj Dora, Nathan Levialdi 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	3.33
14		Surajit Bag, Lincoln C. Wood, Arnesh Telukdarie & 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	3.33
15		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	3.33
16		Stephan Dreyer, 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	3.33
17		Zheng, T., 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*,	3	3.33

		Vol. ahead-of-print No. ahead-of-print. https://doi.org/10.1108/BIJ-01-2021-0056 link		
18		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	3.33
19		Vespoli, S., Guizzi, G., Gebennini, E. *et al.* A novel throughput control algorithm for semi-heterarchical industry 4.0 architecture. *Ann Oper Res* (2021). https://doi.org/10.1007/s10479-021-04184-z link	3	3.33
20	Brad, S., Murar, M., **Brad, E.,** *Methodology for Lean Design of Disruptive Innovations*, Procedia CIRP, Elsevier, 50(2016), 153-159, 2016 Link	Balocco, R., Cavallo, A., Ghezzi, A. and Berbegal-Mirabent, J. (2019), "Lean business models change process in digital entrepreneurship", *Business Process Management Journal*, Vol. 25 No. 7, pp. 1520-1542. https://doi.org/10.1108/BPMJ-07-2018-0194 link	3	3.33
21		Zubizarreta M, Ganzarain J, Cuadrado J, Lizarralde R. Evaluating Disruptive Innovation Project Management Capabilities. *Sustainability*. 2021; 13(1):1. https://doi.org/10.3390/su13010001 link	3	3.33
22		F. D. Valle and M. Oliver, "Blockchain Enablers for Supply Chains: How to Boost Implementation in Industry," in *IEEE Access*, vol. 8, pp. 209699-209716, 2020, doi: 10.1109/ACCESS.2020.3038463. link	3	3.33
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3.3 (a) Membru în 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 ISI

3.3.1 Indexate ISI

Formula: 10

Nr. crt.	a) reviste și manifestări științifice, organizator de manifestări științifice b) recenzor pentru reviste și manifestări științifice naționale și internaționale indexate ISI	Poziție	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

3.3 (a) Membru în 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	Poziție	Punctaj
1	Balkan Region Conference on Engineering and Business Education (BRCEE 2019)	Recenzor	8

3.6 Membru in academii, organizații, asociații profesionale de prestigiu, naționale si 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	Poziție	Punctaj
1	European TRIZ Association (ETRIA)	Membru	5

3.6 Membru in academii, organizații, asociații profesionale de prestigiu, naționale si 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	Poziție	Punctaj
1	Societatea de Robotică din România (SRR)	Membru	3