DOMENIUL FUNDAMENTAL: ȘTIINȚE INGINEREȘTI
DOMENIUL DE DOCTORAT: INGINERIA SISTEMELOR

Nume Prenume: **CIOCA MARIUS**
Gradul didactic: **Prof.univ.dr.habil. ing.**
Instituția unde este titular: **Universitatea Lucian Blaga din Sibiu**
Facultatea: **de Inginerie**
Departamentul: **Inginerie Industrială și Management**

L I S T A
lucrărilor ştiinţifice

A. Teza de doctorat/abilitare

A1. *Contribuţii Ia modelarea întreprinderii şi arhitecturi de referinţă de sisteme informatice în mediul industrial,* Teză de doctorat, Universitatea POLITEHNICA din București, 2004 A2. *Cercetări și rezulatte în Ingineria Sistemelor*, Teză de abilitare, Universitatea din Petroşani, 2017

B. Cărţi si capitole în cărţi publicate în ultimii 10 ani

Cărți:

B1. Cioca, M. (2018) *Studii şi tehnici de dezvoltare a aplicaţiilor în C++*, Editura Universității ”Lucian Blaga” din Sibiu, ISBN 978-606-12-1587-4;
B2. Cioca, M. (2015) *Programarea aplicațiilor Web*, Editura Universității ”Lucian Blaga” din Sibiu, ISBN 978-606-12-1203-3;

Capitole în cărţi:

B11.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

Lucrări în reviste indexate Clarivate Analitics ISI WoS și în volume indexate Clarivate Analitics ISI WoS - ISI Proceedings
Lucrări în reviste indexate Clarivate Analitics ISI WoS
C1. Cioca, M.; Cioca, A.-L. (2025) *RObоMC: A Portable Multimodal System for eHealth Training and Scalable AI-Assisted Education*. Inventions 2025, 10, 103. IF=1.9
C2. Schuszter IC, **Cioca M.** (2024) „*Increasing the Reliability of Software Systems Using a Large-Language-Model-Based Solution for Onboarding”*. Inventions. 2024; 9(4):79, IF=2.10
C3. Schuszter IC, **Cioca M.** (2024) „*Managing Critical Software Systems through Efficient Monitoring Techniques”*. QUALITY-ACCESS TO SUCCESS. 2024; 25(203):79, IF=0.5
C4. Gligorea, I.; **Cioca, M.** et all; (2023) „*Adaptive Learning Using Artificial Intelligence in e-Learning: A Literature Review*”, Education Sciences, 13(12), ISSN = 2227-7102, IF = 3
C5. Cioca, M.; Schuszter, IC (2022), “*A System for Sustainable Usage of Computing Resources Leveraging Deep Learning Predictions*”, APPLIED SCIENCES-BASEL, 12(17), DOI 10.3390/app12178411, 2022, IF 2.838
C6. Gligorea, I.; Yaseen, MU; Cioca, M.; Gorski, H; Oancea, R. (2022), “*An Interpretable Framework for an Efficient Analysis of Students' Academic Performance*”, SUSTAINABILITY, 14(14), DOI 10.3390/su14148885, IF 3.889

C7. Cioca, M., Ivaşcu, L., Cioca, L.I. (2017) "*Safety performance indicators in the metallurgical industry using web programming*" in METALURGIJA, 56(1-2), pp 272-274, ISSN: 0543-5846,

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C8. Schuszter, IC; Cioca, M. (2022) "*Towards Efficient Prediction of Computing Resource Usage Using Deep Learning Techniques*", IEEE 16th INTERNATIONAL SYMPOSIUM ON APPLIED COMPUTATIONAL INTELLIGENCE AND INFORMATICS (SACI 2022), DOI: 10.1109/SACI55618.2022.9919541
C9. Schuszter, IC; Cioca, M. (2021) "*A Study on Distributed Fault-Tolerant Service Architectures for Critical Software Systems*", IEEE 15th INTERNATIONAL SYMPOSIUM ON APPLIED COMPUTATIONAL INTELLIGENCE AND INFORMATICS (SACI 2021), DOI 10.1109/SACI51354.2021.9465574
C10. Broasca, G., **Cioca, M** et al (2017) "*Fundamental and practical aspects concerning the characterization of smart textiles*", 8TH INTERNATIONAL CONFERENCE ON MANUFACTURING SCIENCE AND EDUCATION (MSE 2017) - TRENDS IN NEW INDUSTRIAL REVOLUTION, Volume121 DOI10.1051/matecconf/201712101001
C11. Gifu, D., **Cioca, M.** (2016) "*Linguistic interpretation of speech errors*", 6th International Conference on Computers Communications and Control (ICCCC-IEEE), DOI: 10.1109/1CCCC.2016.7496750
C12. Karakozov, G., Virabyan, G., Verlinski, S., Ciudin, R., **Cioca, M.** (2016) "*Construction of decision support system in business design based on integration of information technology*", 6th International Conference on Computers Communications and Control (ICCCCIEEE), DOI: 10.1109/1CCCC.2016.7496750
C13. Cioca, M., Cioranu, C., Novac, C. (2015) "Database versioning 2.0, a transparent SQL approach used in Quantitative Management and Decision Making' International Conference on Information Technology and Quantitative Management (ITQM 2015), Brazil, published in "Procedia Computer Science, DOI10.1016/j.procs.2015.07.030
C14. Gifu, D., **Cioca, M.** (2015) "Innovative Methods for Business Education using Isotope Linking on Anonymous Readers' Comments", Balkan Region Conference on Engineering and Business Education, DOI 10.1515/cplbu-2015-0023

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Schuszter, IC; Cioca, M. (2021) "Improving service-level agreements for critical systems using big data monitoring techniques", MATEC Web of Conferences 343, 05002, https://doi.org/10.1051/matecconf/202134305002, 10th International Conference on Manufacturing Science and Education – MSE 2021
Schuszter, IC; Cioca, M. (2021) "An implementation of a fault-tolerant database system using the actor model", MATEC Web of Conferences 342, 05001 (2021), https://doi.org/10.1051/matecconf/202134205001, 9th International Multidisciplinary Symposium "UNIVERSITARIA SIMPRO 2021": Quality and Innovation in Education, Research and Industry – the Success Triangle for a Sustainable Economic, Social and Environmental Development"
Cioca, M., Cioranu, C., Ciora, R. (2016) "Extracting Features from Social Media Networks using Semantics", Linquistic Linked Open Data, Springer, DOI: 10.1007/978-3-31932942-0_9, pp. 127-136
Ciora, R., Simion, C., **Cioca, M.** (2016) 'Quality Improvement Based on Big Data Analysis", Linquistic Linked open Data, Springer, DOI: 10.1007/978-3-319-32942-0_9, pp. 101-109

D. Lucrări publicate în ultimii 10 anii în reviste şi volume de conferinţe cu referenţi (neindexate) - Selecţie cu maximum 20 de lucrări în volume de conferinţe

D1.

E. Brevete obţinute în întreaga activitate

E1.	

Data:
05.12.2025

Semnătura:

Nume Prenume: Monica LEBA
Gradul didactic: **Prof.univ.dr.habil. ing.**
Instituția unde este titular: **Universitatea din Petroșani**
Facultatea: **Inginerie Mecanică și Electrică**
Departamentul: Automatică, Calculatoare, Inginerie Electrică și Energetică

L I S T A
lucrărilor ştiinţifice

A. Teza de doctorat/abilitare

A1. *Contribuţii privind conducerea numerică ierarhizată a sistemelor de acţionare cu motor asincron cu aplicaţii în industria minieră, Universitatea din Petroşani, Domeniul Ştiinţe Inginereşti, Specializarea Automatică, 2002.*
A2. *Computers for Control: from Industrial Processes to Innovative Systems,* Universitatea din Craiova, Domeniul Ingineria sistemelor, 2015

B. Cărţi si capitole în cărţi publicate în ultimii 10 ani

Cărţi:

B1. Exoskeleton Control System. ISBN-13: 978-620-3-20051-5, ISBN-10: 6203200514, EAN: 9786203200515, Book language: English, By (author): Marius-Nicolae Risteiu, **Monica Leba**, Olimpiu Stoicuta. Number of pages: 168, Published on: 2021-01-05, https://my.lap-publishing.com/catalog/details//store/ru/book/978-620-3-20051-5/exoskeleton-control-system
B2. Quality Tools Embedded in I.T. Startup Project Management by Raluca Dovleac (Author), Andreea Ionica (Author), **Monica Leba** (Author), Publisher: LAP LAMBERT Academic Publishing (25 Jan. 2021), Language : English, Paperback : 224 pages, ISBN-10 : 6203303321, ISBN-13 : 978-6203303322, https://www.amazon.co.uk/Quality-Embedded-Startup-Project-Management/dp/6203303321
B3. Application of Visible Light Wireless Communication in Underground Mine, Simona Mirela Riurean, **Monica Leba**, Andreea Cristina Ionica, DOI https://doi.org/10.1007/978-3-030-61408-9, Publisher Springer Cham, Springer Nature Switzerland AG 2021, Hardcover ISBN978-3-030-61407-2, Published: 03 February 2021, Number of Pages 226, https://link.springer.com/book/10.1007/978-3-030-61408-9
B4. Exploring the Possibilities of Using Project Management Methodologies in the 21st Century Education, By: Ahmad Fuad Saad, Andreea Cristina Ionica, **Monica Leba**, Publisher: LAP Lambert, ISBN: 978-620-6-75526-5, no of pages: 251
B5. Cosmin Rus, **Monica Leba** – Utilizarea vehiculelor electrice in spatii inchise, Editura Universitas, 2022, ISBN 978-973-741-862-3, 215 pag.
B6. Riurean, Simona Mirela, **Leba, Monica**, Ionica, Andreea Cristina. *Application of Visible Light Wireless Communication in Underground Mine,* 2020, Springer. ISBN 978-3-030-61407-2, DOI 10.1007/978-3-030-61408-9, 270
B7. Marius Risteiu, **Monica Leba,** Olimpiu Stoicuța. *Conducerea sistemelor de tip exoschelet.* Editura Universitas, Petroșani, 978-973-741-737-4, 168
B8. Monica Leba, Computers for Control. Ed. Lambert, 2019, ISBN 978-620-0-46077-6, 240 pag. https://www.morebooks.shop/store/gb/book/computers-for-control/isbn/978-620-0-46077-6
B.9. Monica Leba, Assembly Language Programming. Applications in system control engineering. Volume I, Ed. Lambert, 2019, ISBN 978-620-0-48576-2, 380 pag. https://www.morebooks.shop/store/gb/book/assembly-language-programming/isbn/978-620-0-48576-2

B.10. Monica Leba, Assembly Language Applications. System control engineering. Volume II, Ed. Lambert, 2019, ISBN 978-620-0-48578-6, 528 pag. https://www.morebooks.shop/store/gb/book/assembly-language-applications/isbn/978-620-0-48578-6
B.11. M.L.Olar, **Monica Leba** - Ciclul de viata al jocurilor video, Ed.Universitas, 2019, ISBN 978-741-649-0, 210 pag

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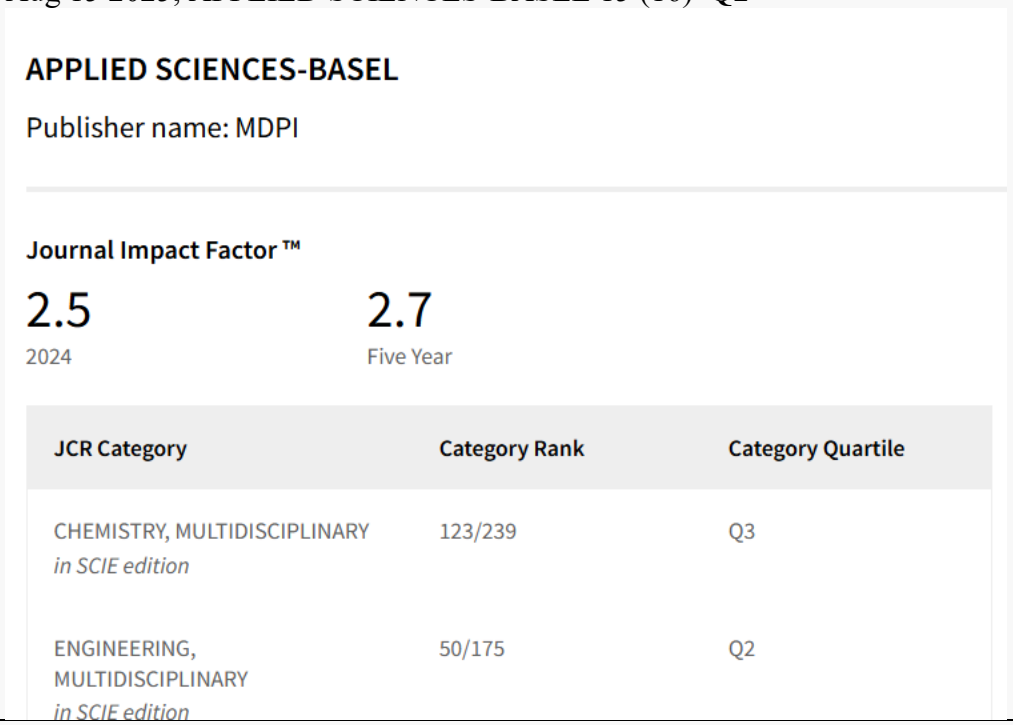
B13. Andreea Ionica, **Monica Leba** - Integrated System for New Product Development in Healthcare în Intelligent Techniques for Efficient Use of Valuable Resources - Knowledge and Cultural Resources Integrated (83-106 pp.), https://doi.org/10.1007/978-3-031-09928-1, Integrated System for New Product Development in Healthcare | SpringerLink, Springer, Published: 02 August 2022, ISBN 978-3-031-09927-4 ISSN 1868-4394

D. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

Lucrări în reviste indexate Clarivate Analitics ISI WoS și în volume indexate Clarivate Analitics ISI WoS - ISI Proceedings
Lucrări în reviste indexate Clarivate Analitics ISI WoS

C1.	From Convolution to Spikes for Mental Health: A CNN-to-SNN Approach Using the DAIC-WOZ Dataset Triohin, V; **Leba Monica** and Ionica, AC Aug 15 2025, APPLIED SCIENCES-BASEL 15 (16) **Q2**
C2.	AI-Driven Arm Movement Estimation for Sustainable Wearable Systems in Industry 4.0 Muntean, E; **Leba Monica** and Ionica, AC Jul 11 2025, SUSTAINABILITY 17 (14) **Q2**



APPLIED SCIENCES-BASEL

Publisher name: MDPI

Journal Impact Factor ™

2.5	2.7
2024	Five Year

JCR Category	Category Rank	Category Quartile
CHEMISTRY, MULTIDISCIPLINARY *in SCIE edition*	123/239	Q3
ENGINEERING, MULTIDISCIPLINARY *in SCIE edition*	50/175	Q2

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SUSTAINABILITY
Publisher name: MDPI

Journal Impact Factor™
3.3 (2024) 3.6 (Five Year)

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<tr><td>ENVIRONMENTAL SCIENCES
in SCIE edition</td><td>176/374</td><td>Q2</td></tr>
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in SSCI edition</td><td>80/191</td><td>Q2</td></tr>
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<tr><td>C3.</td><td>Seeing the Unseen: Real-Time Micro-Expression Recognition with Action Units and GPT-Based Reasoning
Salagean, GL; Leba Monica and Ionica, AC
Jun 6 2025, APPLIED SCIENCES-BASEL 15 (12) Q2</td></tr>
<tr><td>C4.</td><td>Leveraging Symmetry and Addressing Asymmetry Challenges for Improved Convolutional Neural Network-Based Facial Emotion Recognition
Salagean, GL; Leba Monica and Ionica, AC
Mar 6 2025, SYMMETRY-BASEL 17 (3) Q2

SYMMETRY-BASEL
Publisher name: MDPI

Journal Impact Factor™
2.2 (2024) 2.1 (Five Year)

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in SCIE edition</td><td>54/135</td><td>Q2</td></tr>
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<tr><td>C5.</td><td>Enhancing Agritourism 4.0: Key Technologies and Benefits
Stancioiu, EL; Ionica, AC and Leba Monica
Jun 1 2025, BUSINESS SYSTEMS RESEARCH JOURNAL 16 (1), pp.233-254 ESCI Q4</td></tr>
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<tr><td></td><td>
BUSINESS SYSTEMS RESEARCH JOURNAL
Publisher name: SCIENDO

Journal Impact Factor ™
1.2 (2024) 1.3 (Five Year)
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<tr><td>BUSINESS
in ESCI edition</td><td>239/316</td><td>Q4</td></tr>
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</td></tr>
<tr><td>C6.</td><td>Ionica, A; Cseminschi S; Monica Leba. From Concept to Market: Ensemble Predictive Model for Research Project Crowdfunding Readiness. SYSTEMS, 2024,12 (12), 535, 10.3390/systems12120535 (Q1)
← Journal information ×

SYSTEMS
Publisher name: MDPI

Journal Impact Factor ™
2.3 (2023) 2.5 (Five Year)
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<tr><td>SOCIAL SCIENCES, INTERDISCIPLINARY
in SSCI edition</td><td>44/267</td><td>Q1</td></tr>
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Source: Journal Citation Reports 2023. Learn more</td></tr>
<tr><td>C7.</td><td>Panaite, FA; Rus, C; Monica Leba; Ionica, AC; Windisch, M. Enhancing Air-Quality Predictions on University Campuses: A Machine-Learning Approach to PM2.5 Forecasting at the University of Petrosani. SUSTAINABILITY, 2071-1050, 2024, 16 (17), 7854, 10.3390/su16177854, WOS:001311385100001 (Q2)</td></tr>
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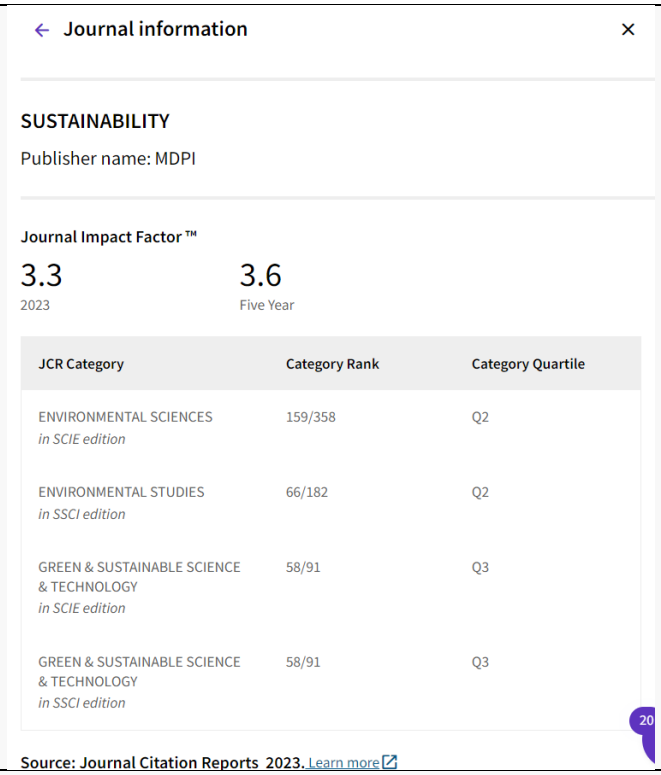
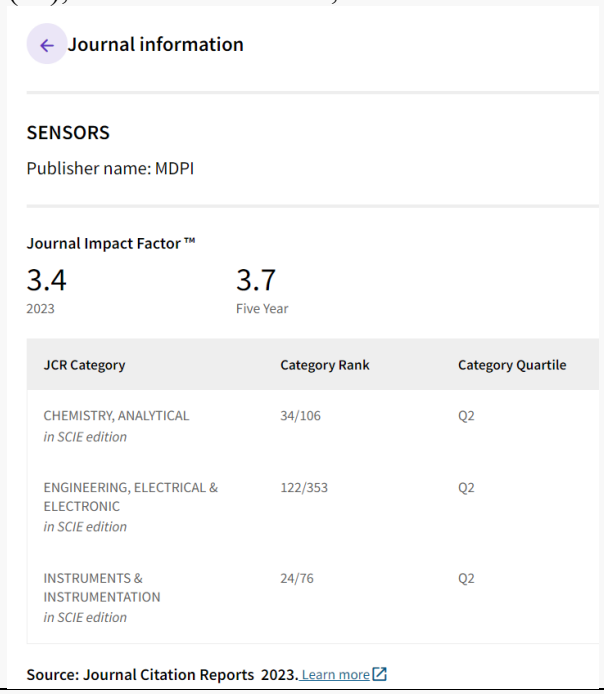
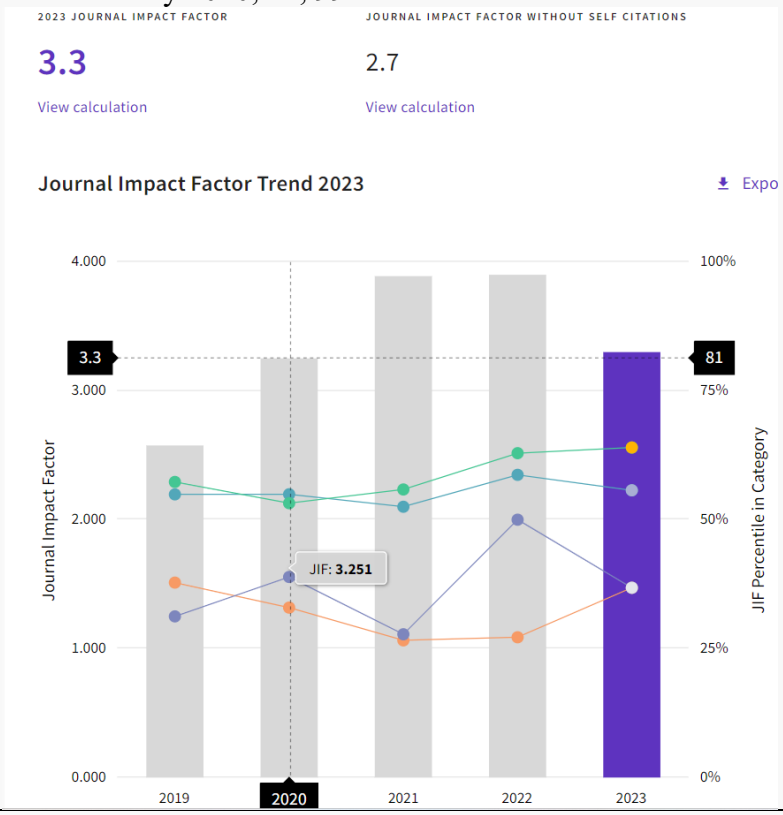
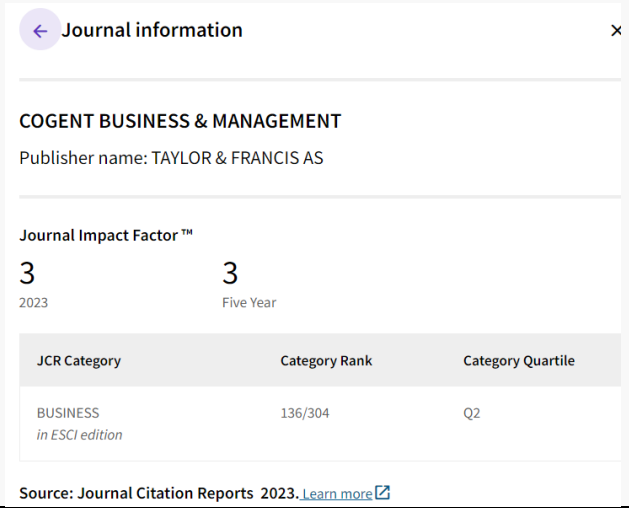
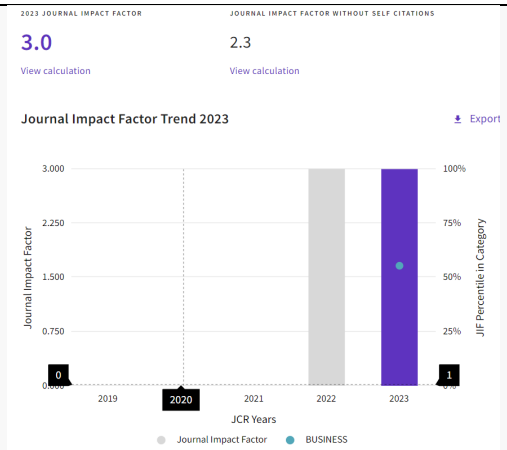
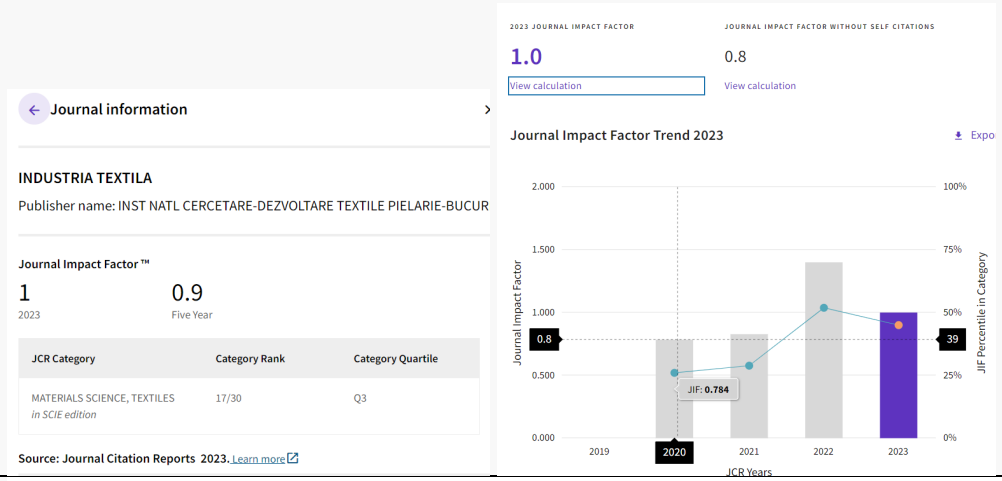
	
C8.	Sibisanu, R; Cseminschi, S; Ionica, A; **Monica Leba**; Draghici, A; Nassar, Y. Investigating School Principals' Burnout: A Cross-Cultural Perspective on Stress, Sustainability, and Organizational Climate. SUSTAINABILITY, 2071-1050, 2024, 16 (16), 10.3390/su16167016, WOS:001307574800001 (Q2)
C9.	Windisch, M; Wassermann, J; **Monica Leba**; Stoicuta, O. Hadamard Error-Correcting Codes and Their Application in Digital Watermarking. SENSORS, 1424-8220, 2024, 24 (10), 10.3390/s24103062, WOS:001231408500001 (Q2) 
C10.	Stoicuta, O; Riurean, S; Burian, S; **Monica Leba**; Ionica, A. Application of Optical Communication for an Enhanced Health and Safety System in Underground Mine. SENSORS, 1424-8220, 2023, 23 (2), 10.3390/s23020692, WOS:000927245900001 (Q2)

C11.	Panaite, FA; **Monica Leba**; Ionica, AC. Assessing CNN Architectures for Estimating Correct Posture in Cruise Machinists, ENG, 2673-4117, 2024, 5 (3). 10.3390/eng5030094, WOS:001323181800001 (ESCI)
C12.	Windisch, M; Himmelstoss, FA; **Monica Leba**; Stoicuta, O; Votzi, HL. Combined Light and Data Driving Stages without Capacitors for Energy Transformation. ELECTRICITY, 2673-4826, 2024, 5 (2), 10.3390/electricity5020016, WOS:001256378100001
C13.	Ionica, A.; Samuil, I.; **Leba, M.**; Toderas, M. The Path of Petrila Mining Area towards Future Industrial Heritage Tourism Seen through the Lenses of Past and Present. Sustainability 2020, 12, 9922. 
C14.	QFD embedded Agile approach on IT startups project management By: Dovleac, Raluca; Ionica, Andreea; **Leba, Monica** COGENT BUSINESS & MANAGEMENT Volume: 7 Issue: 1 Article Number: 1782658 Published: JAN 1 2020 



C15. A dedicated wearable device integrated in textiles
By: **Leba, Monica**; Ionica, Andreea Cristina; Risteiu, Marius Nicolae INDUSTRIA TEXTILA Volume: 71 Issue: 1 Pages: 68-72
Published: 2020



C16. Caramidaru, Ibrian, Ionica, Andreea, and **Leba, Monica**. 'A Learning-by-doing Based Framework for Micro-knowledge Management in Project Contexts'.
DOI: 10.3233/HSM-201039, Citation: Human Systems Management, vol. 39, no. 4, pp. 529-536,
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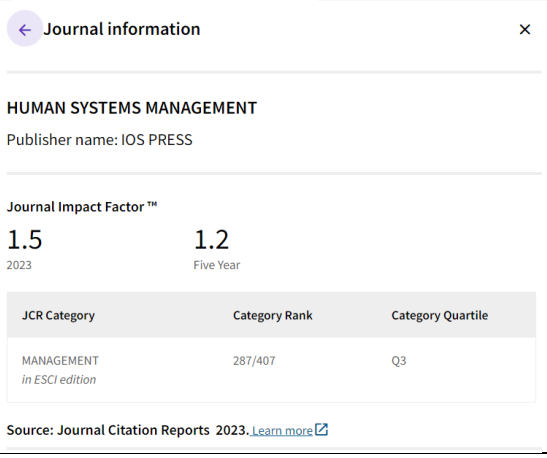
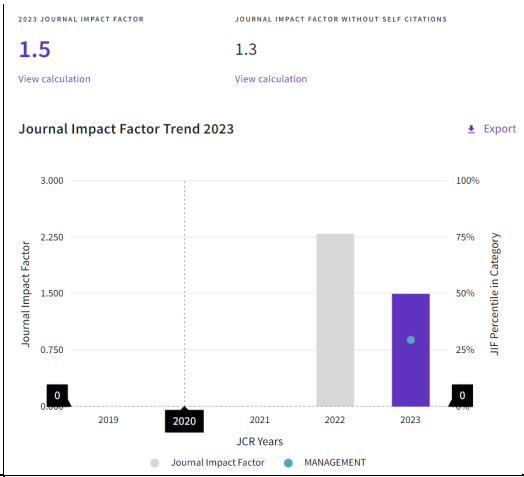




C17. Riurean Simona; Antipova Tatiana; Rocha Alvaro; **Leba Monica**; Ionica Andreea, VLC, OCC, IR and LiFi Reliable Optical Wireless Technologies to be Embedded in Medical Facilities and Medical Devices, JOURNAL OF MEDICAL SYSTEMS
Volume: 43 Issue: 10
Article Number: 308
DOI: 10.1007/s10916-019-1434-y
Published: OCT 2019

Journal information

JOURNAL OF MEDICAL SYSTEMS

Publisher name: SPRINGER

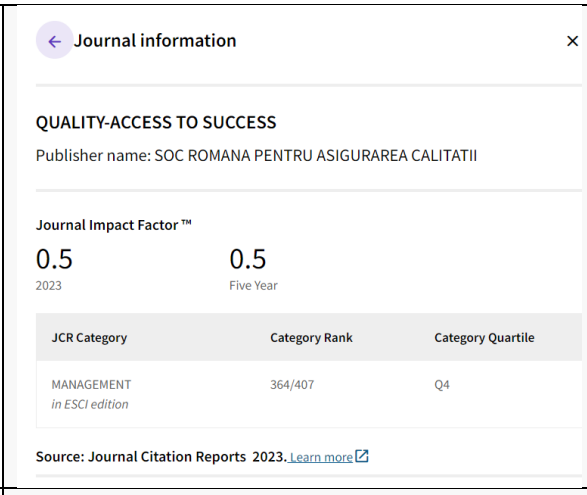
Journal Impact Factor™

3.5	4.7
2023	Five Year

JCR Category	Category Rank	Category Quartile
HEALTH CARE SCIENCES & SERVICES *in SCIE edition*	31/174	Q1
MEDICAL INFORMATICS *in SCIE edition*	18/44	Q2

Source: Journal Citation Reports 2023. Learn more

C18. VLC embedded medical system architecture based on medical devices quality requirements
By: Riurean, Simona Mirela; **Leba, Monica**; Ionica, Andreea
QUALITY-ACCESS TO SUCCESS Volume: 20 Supplement: 1 Pages: 317-
322 Published: JAN 2019

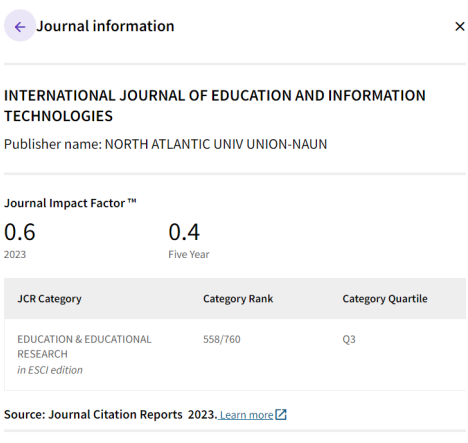


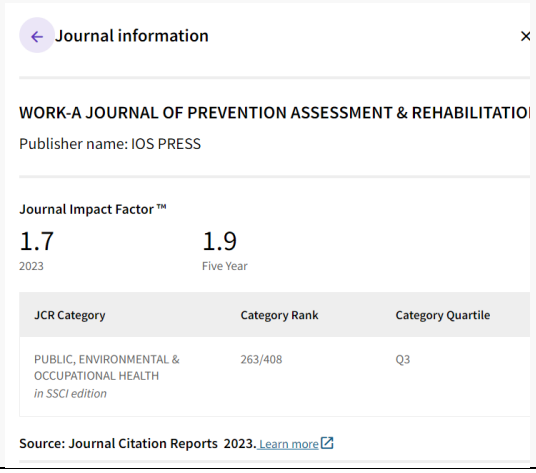
C19. Quality management and Web 2.0 tools embedded in the agile approach for education By:Dovleac, R (Dovleac, Raluca)[1] ; Sad, A (Sad, Ahmad)[1] ; Ionica, A (Ionica, Andreea)[1] ; **Leba, M** (Leba, Monica)[1]
QUALITY-ACCESS TO SUCCESS
Volume: 20 Pages: 329-334 Supplement: 1
Published: JAN 2019

C20. Exoskeleton for improving quality of life for low mobility persons By:
Risteiu, Marius; **Leba, Monica**; Arad, Andrei
QUALITY-ACCESS TO SUCCESS Volume: 20 Supplement: 1 Pages: 341-
346 Published: JAN 2019

C21. Waste Management System for Batteries,
SUSTAINABILITY, Volume: 10 Issue: 2 Article Number: 332 Published: FEB 2018, **Monica Leba**; Ionica, Andreea; Dovleac, Raluca; Dobra, Remus

C22. Evaluating Items Structure and Objectivity on E-Commerce Subject. Riurean, S.; **Monica Leba**; Ionica, A.
INTERNATIONAL JOURNAL OF EDUCATION AND INFORMATION TECHNOLOGIES Volume: 12 Pages: 69-74 Published: 2018 (emerging sources)
WOS:000440225300010



C23.	**Innovation and quality - partnership for sustainable development. Check4Green Startup Case** By: Ionica, Andreea; **Monica Leba** QUALITY-ACCESS TO SUCCESS Volume: 18 Supplement: 1 Pages: 338-343 Published: JAN 2017 (emerging sources) WOS:000417405000062
C24.	**Human action quality evaluation based on fuzzy logic with application in underground coal mining** By: Ionica, Andreea; **Monica Leba** WORK-A JOURNAL OF PREVENTION ASSESSMENT & REHABILITATION Volume: 51 Issue: 3 Special Issue: SI Pages: 611- 620 Published: 2015 

Lucrări în volume indexate Clarivate Analitics ISI WoS - ISI Proceedings

C25.	Riti; RI; Ionica; AC; **Monica Leba** Optimizing the Test Plan for a Mobile Financial Technology Application in the Scaled Agile Framework Methodology 2024 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION; QUALITY AND TESTING; ROBOTICS; AQTR IEEE International Conference on Automation Quality and Testing Robotics International Conference on Automation; Quality and Testing; Robotics (AQTR) Cluj-Napoca; ROMANIA 1844-7872 1844-7872 979-8-3503-6194-0; 979-8-3503-6193-3; 979-8-3503-6191-9 2024 10.1109/AQTR61889.2024.10554270 WOS:001253157800058
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C67.	Environmental Monitoring Systems in Schools' Proximity Areas. By:Riurean, S (Riurean, Simona)[1] ; Rosca, S (Rosca, Sebastian)[1] ; Rus, C (Rus, Cosmin)[1] ; **Leba, M (Leba, Monica)**[1] ; Ionica, A (Ionica, Andreea)[1], INFORMATION TECHNOLOGY SCIENCE, Edited by:Antipova, T; Rocha, A, Book Series: Advances in Intelligent Systems and Computing, Volume: 724 Pages: 47-55, DOI: 10.1007/978-3-319-74980-8_5, Published: 2018

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C72.	**A NEW APPROACH ON IT STARTUPS PROJECT MANAGEMENT** By: Dovleac, Raluca; Ionica, Andreea; Leba, Monica Conference: 5th Review of Management and Economic Engineering International Management Conference Location: Tech Univ Cluj Napoca, Cluj Napoca, ROMANIA Date: SEP 22-24, 2016 Sponsor(s): Romanian Managers & Econ Engineers Assoc; Tech Univ Cluj Napoca; Asociatia Conducatorilor Activitati Doctorat Excelenta Managementul Ingn Afacerilor FROM MANAGEMENT OF CRISIS TO MANAGEMENT IN A TIME OF CRISIS Book Series: Review of Management and Economic Engineering International Management Conference Pages: 32-39 Published: 2016 WOS:000385997200004

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- Selecție cu maximum 20 de lucrări în volume de conferințe

F. Brevete obţinute în întreaga activitate

Nr. crt.	Autori	Titlu	Nr.Inregistrare
E1	Yunis Nassar, Andreea Cristina Ionica, **Monica Leba**	Brevet international Israel, BURNOUT STATUS IDENTIFICATION AND ALARMING SYSTEM,	nr. 270751/18.11.2019 Israel Patent Office

Nr. crt.	Autori	Titlu	Nr.Inregistrare OSIM
E2	Marcus R, Rus C, **Leba M**	AUTOVEHICUL SMART ELECTRIC CU SISTEM DE COMUNICAȚIE LORA ȘI RECUPERAREA UNEI PĂRȚI A ENERGIEI ELECTRICE CONSUMATE ÎN VEDEREA CREȘTERII AUTONOMIEI	A 2019 00201 / 23.03.2019
E3	Ionica A, **Leba M,** Dovleac R	PROCEDEU DE PLANIFICARE BAZAT PE UN ALGORITM DE DIVIZARE OPTIMĂ A SARCINILOR DE LUCRU	A 2019 00168 / 18.03.2019
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Data:
01.10.2025

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Departamentul: **Automatică, Calculatoare, Inginerie Electrică și Energetică**

L I S T A
lucrărilor ştiinţifice

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