**Model F17 - Memoriul ştiinţific al studentului doctorand**

**MEMORIU ŞTIINŢIFIC**
**Drd. Iacob L Andrei Ştefan**

**Studii de doctorat**

Perioada: 02.10.2023
Conducător ştiinţific: Prof.dr.ing. Oana-Roxana Chivu
Domeniu: Inginerie Industrială
Titlul tezei de doctorat: Dezvoltarea unui sistem integrat de optimizare a proceselor operaţionale şi monitorizare a componentelor sistemului de muncă

**Activitate ştiinţifică**

**A. Lista de lucrări ştiinţifice (articole în reviste sau volume)**

1. **IACOB A. Ş.**, GHEORGHE M., BORDA C., ENACHE C., MARINESCU M., CONSTANTIN R., CHIVU O.R., The Impact of Digitalization on Workers' Safety and Health, Series: Applied Mathematics, Mechanics, and Engineering, November, 2025, ACTA TECHNICA NAPOCENSIS, Vol 68, Issue 3-4, ISSN 1221-5872 , pp. 1257-1264, **WOS:001697518900026**

2. **IACOB A. Ş.,** CHIVU O.R., ENACHE C.I., MERLOI N., BOBOCEA M.G., NITOI D.F., TRIFU A., GHEORGHE M. , Smart digital monitoring systems for occupational Safety in smart manufacturing. Are they safe?, Series: Applied Mathematics, Mechanics, and Engineering , Vol. 69, Issue Special I, February, 2026 ACTA TECHNICA NAPOCENSIS, pp 59 – 68, **WOS:001827441500007**

3. **IACOB A.Ş.**, CHIVU O.R., DIŢĂ C., NIŢOI D.F., GHIMIŞI Ş.S., Digitization of occupational health and safety processes: design and implementation of an integrated software module, Series: Applied Mathematics, Mechanics, and Engineering, ACTA TECHNICA NAPOCENSIS, vol 69, pp 657-664, 2026, **WOS:001876381600024**

4. **IACOB A. Ş.,** MOISE A., CHIVU O.R., BORDA C., LUCHIAN C., Monitoring study of the work system aiming to reduce the risk of workplace injuries, Fiabilitate si Durabilitate - Fiability & Durability No 1/ 2024 , Editura "Academica Brâncuşi" , Târgu Jiu, ISSN 1844 – 640X, pp 168-174

5. **IACOB A. Ş.,** CHIVU O.R., TRIFU A., BUJOR C., MORARU R., ENACHE I.C., Human resources processes digitalization system based on RPA and IA technologies, Annals of the „Constantin Brancusi" University of Targu Jiu, Engineering Series, No. 4/2025, pp195-210

6. **IACOB A. Ş.,** CHIVU O.R., COSTOIU M., TRIFU A., MORARU R., BIBIŞ A., A hybrid FRAM-Kirkpatrick framework for evaluating OSH digital training effectiveness in complex socio-technical systems, International Journal of Education and Information Technologies, 2026, Volume 20,E-ISSN: 2074-1316, Received: December 3, 2025. Revised: April 4, 2026. Accepted: May 9, 2026. Published: June 30, 2026. DOI: 10.46300/9109.2026.20.13, 1. **DOI: 10.46300/9109.2026.20.13**

7. **IACOB A. Ş.,** CHIVU O.R, A. TRIFU, A. CANA, A. BIBIS, Occupational Health and Safety training using online platforms in road transport - a case study, Journal of Research and Innovation for Sustainable Society (JRISS) Volume 8, Issue 1, 2026 ISSN: 2668-0416 , DOI: 10.33727/JRISS.2026.1.2:20-31

8. **IACOB A. Ş.,** CHIVU O.R, A. TRIFU C. BORDA, A. CANĂ,Digital Fatigueass An Emerging Occupational Risk In Knowledge-Based Work, Fiabilitate si Durabilitate - Fiability & Durability No 1/ 2026, Editura "Academica Brâncuşi", Târgu Jiu, ISSN 1844 – 640X, DOI: 10.65631/JFD.1(37).2026.22

9. GHEORGHE M., CHIVU O.R., NIŢOI D., **IACOB A. Ş.**, BORDA C., BOBOCEA M.G., Burnout as an occupational safety challenge in industry 4.0 context, Manufacturing Science and Education 2025, ACTA TECHNICA NAPOCENSIS, Series: Applied Mathematics, Mechanics, and Engineering Vol. 68, Issue Special III, August 2025, ISSN 1221-5872, pp 1081-1093, **WOS:001653657300022**

10. ENACHE I.C., CHIVU, O.R., **IACOB A. Ş.,** MARINESCU M., BUTU L., Optimizing 3D printing: enhancing performance through parameter control, Materiale Plastice, Volume 62, Issue 4, pp. 51-63, DOI 10.37358/MP.25.4.72653, Decembrie 2025, ISSN 0025-5289, **WOS:001663999400004**

11. BOBOCEA M.G., CHIVU O.R., BORDA C., ZAMFIR M., **IACOB A. Ş.**, LUCA C., RĂDULESCU C., DUBIC D., Applying the functional resonance analysis method for assessing the risk of work accidents in constructions sites, Series: Applied Mathematics, Mechanics, and Engineering Vol. 69, Issue Special I, February, 2026, ACTA TECHNICA NAPOCENSIS, pp 69-76, **WOS:001827441500008**

12. MERLOI N., CHIVU O.R., NITOI D.F., **IACOB A. Ş.,** IVAN B., STĂNCIOIU A., ȚĂPÎRDEA A.I., GHIMIȘI Ș. S., Mitigating occupational risks in the context of Cultural events: a multi-level risk management Framework, Series: Applied Mathematics, Mechanics, and Engineering Vol. 69, Issue Special I, February, 2026, ACTA TECHNICA NAPOCENSIS, pp 77- 84, **WOS 001827441500009**

13. RADU L.F., MORARU A., ENACHE I.C., **IACOB A. Ş.,** LEONTE T., VÎNTURIȘ C., Design of a wing section and structural analysis, Fiabilitate si Durabilitate - Fiability & Durability No 1/ 2025, Editura "Academica Brâncuşi", Târgu Jiu, ISSN 1844-640X, pp 144-158,

14. BOBOCEA M.G., CHIVU O.R., DEDIU E.C., MARINESCU M., BUTU L., **IACOB A. Ş.,** Development and implementation of a predictive model of accident risk on construction sites, Annals of the „Constantin Brancusi" University of Targu Jiu, Engineering Series No. 4/2025, pp 153-163

15. DEDIU E.C., BOBOCEA M.G., **IACOB A. Ş.,** CHIVU O.R., BORDA C., Research on the incidence of occupational accidents in wind industry, Fiabilitate si Durabilitate - Fiability & Durability No 1/ 2024, Editura "Academica Brâncuşi", Târgu Jiu, ISSN 1844-640X, pp 163-168

16. CANĂ A., CHIVU O.R., **IACOB A. Ş.,** ȚEPURE Ș.T., GHEORGHE M., PETRESCU D., Design of an assistance system for accident detection and prevention in automotive servicing: concept and architecture, Annals of the „Constantin Brancusi" University of Târgul Jiu, Engineering Series, No. 4/2025

17. MERLOI N., NIȚOI D.F., ȚĂPÎRDEA A., MUSTAȚĂ V., **IACOB A. Ş.,** TUCĂ P., Technological solutions for safe evacuation at cultural events in unconventional spaces: swift analysis and gps applications, Fiabilitate si Durabilitate - Fiability & Durability No 1/ 2025, Editura "Academica Brâncuşi", Târgu Jiu, ISSN 1844 – 640X, pp 182-189

18. CIOBANU C.M., CHIVU O.R., CÎRȚÎNĂ L.M., **IACOB A. Ş.,** MARINESCU M., BUTU L., Cyber threats evolution in industrial environments and foundations of cybersecurity integration into risk management, Annals of the „Constantin Brancusi" University of Targu Jiu, Engineering Series, No. 4/2025, pp 175 - 182

19. LEONTE T., ZAMFIR M., LUCA C., **IACOB A. Ş.,** BULBOACĂ E., LUCHIAN C., RADU L.F., TUCĂ P., Analysis of instrumental methods identification of xenobiotics to reduce soil pollution, Fiabilitate si Durabilitate - Fiability & Durability No 1/ 2025, Editura "Academica Brâncuşi", Târgu Jiu, ISSN 1844 – 640X, pp 189-198

20. ZAMFIR M., CHIVU O.R., **IACOB A. Ş.,** LUCA C., VÎNTURIȘ C., BUȚU L., Study on electromagnetic pollution generated by communication systems, Fiabilitate si Durabilitate - Fiability & Durability nr. 1/ 2025, Editura "Academica Brâncuşi", Târgu Jiu, ISSN 1844 - 640X, pp 197-203

21. MOISE A., **IACOB A. Ş.,** CANĂ A., ȚEPURE Ș., BOBOCEA M.G., GHEORGHE M., The current stage regarding the risks of accidents through surprising the shores, Fiabilitate si Durabilitate - Fiability & Durability No 1/ 2024, Editura "Academica Brâncuşi", Târgu Jiu, ISSN 1844-640X, pp 190-200

22. DIMITRESCU A., **IACOB A. Ş.,** BABIȘ C., FICĂ S.A., CHIVU O.R., NITOI D., 3D printing of abs+ material bending tests in printing position a - horizontal position, Fiabilitate si Durabilitate - Fiability & Durability No 1/ 2024, Editura "Academica Brâncuşi", Târgu Jiu, ISSN 1844-640X, pp 206-212

23. ADOCHITEI N., **IACOB A. Ş.,** MĂRGĂRITA I. A., BOBOCEA M.G., GHEORGHE M., BORDA C., The impact of digitalisation on health and safety in retail, Fiabilitate si Durabilitate - Fiability & Durability No 1/ 2024, Editura "Academica Brâncuşi", Târgu Jiu, ISSN 1844 – 640X, pp 212-218

24. ȚĂPÎRDEA A.R., CHIVU O.R., BORDA C., FEIER A., **IACOB A. Ş.,** PETRESCU (DUBIC) D., DARABONT D.C., Research on the reduction of occupational risks in the processing of advertising boards, Annals of the „Constantin Brancusi" University of Târgu Jiu, Engineering Series, nr. 4/2025, pp 229-240

25. B. IVAN, CHIVU O.R., C. BORDA, M. GHEORGHE M. ZAMFIR, **IACOB A.Ş.,** Analysis Of Operational Parameters In A Municipal Landfill - Case Study,Fiabilitate si Durabilitate - Fiability & Durability No 1/ 2026, Editura "Academica Brâncuşi", Târgu Jiu, ISSN 1844 – 640X, DOI: 10.65631/JFD.1(37).2026.21

26. A. CANĂ,M.G. BOBOCEA, **IACOB A. Ş.**, M. GHEORGHE, C. BORDA,D.F. NIȚOI ,A Digital Twin–Based Approach For Risk Monitoring In Automotive Repair Workshops, Fiabilitate si Durabilitate - Fiability & Durability No 1/ 2026, Editura "Academica Brâncuşi" , Târgu Jiu, ISSN 1844 – 640X, DOI: 10.65631/JFD.1(37).2026.25

27. M. ZAMFIR, CHIVU O.R, C. LUCA, N. MERLOI (ENE), M.G. BOBOCEA, **IACOB A. Ş.,** Experimental Research On Reducing Risks In The Installation Of Gsm Antennas, Fiabilitate si Durabilitate - Fiability & Durability No 2026, Editura "Academica Brâncuşi", Târgu Jiu, ISSN 1844 – 640X, DOI: 10.65631/JFD.1(37).2026.36

28. A. CANA, A. MOISE, **IACOB A.Ș.,** S. ȚEPURE, C. ENACHE, C. BORDA, Increased safety in car repair shops, Annals of the „Constantin Brancusi" University of Targu Jiu, Engineering Series, No. 4/2024

29. A. MOISE, O. R. CHIVU, M. GHEORGHE, C. BORDA, **IACOB A.Ș.,** Study regarding the use of banks support systems in the field of construction, Annals of the „Constantin Brancusi" University of Targu Jiu, Engineering Series, No. 4/2024

30. M.G. BOBOCEA, E.C. DEDIU, **IACOB A.Ș.,** C. BORDA, C. RADU, Study on the situation of occupational accidents on construction sites in romania, Annals of the „Constantin Brancusi" University of Targu Jiu, Engineering Series, No. 4/2024

31. M. ZAMFIR, O.R. CHIVU, **IACOB A.Ș.,** A. ȚĂPÎRDEA, C. LUCA, Effects of gsm antennas on living organisms, Annals of the „Constantin Brancusi" University of Targu Jiu, Engineering Series, No. 4/2024 pp 133-138

32. DEDIU E.C., BOBOCEA M.G., CHIVU O.R., FEIER A., **IACOB A.Ș.,** Integrating non-eu workforce into romania's wind industry, Annals of 'Constantin Brancusi' University of Targu-Jiu. Engineering Series 2024, n. 4, p. 110

**A. Cărți și manuale**

1. Andre-Ștefan IACOB, 2026, „Managementul Avansat al Securității și Sănătății în Muncă", Editura ACADEMICA BRÂNCUȘI Târgu Jiu, ISBN 978-630-340-071-6

**B. Participări la conferințe/workshop-uri**

1. The 11th International Conference on Manufacturing Science and Education – MSE, Sibiu, 4-6 iunie 2025.
2. ErgoWork 2024 International Biennial Conference, 3nd International Conference of the Romanian Society on Ergonomics and Workplace Management, Bucharest, Romania, October 31 – November 1, 2024.
3. SIM 2025: 18th International Symposium in Management, Optimizing the Future: Management Innovation for a Sustainable World, Timisoara, 24-25 October 2025.
4. MTeM 2025 - The 16th International Conference on Modern Technologies in Manufacturing, Technical University from Cluj-Napoca, 8-10 October 2025.
5. CONFERENG 2025 National Scientific Conference with International Participation, Târgu Jiu, November 28-29, 2025
6. 12th International Symposium on Occupational Health and Safety – SESAM 2025, Brașov, Romania, October 23rd, 2025.

**C. Brevete**

1. .....

**D. Proiecte de cercetare științifică**

1. .....

**E. Stagii de perfecționare**

1. 2009 - IOSH Anglia - International Risk Assessment

**F. Cursuri de perfecționare**

1. 2010 - Curs Formator - Ministerul Muncii și Solidarității Sociale & Ministerul Educației și Cercetării
2. 2007 - Curs Cadru Tehnic cu Atribuții în Domeniul Prevenirii și Stingerii Incendiilor
3. 2006 - Curs Inspector Protecția Muncii
4. 2006 - Curs postuniversitar: Evaluarea Riscurilor de Accidentare și Îmbolnăvire Profesională
5. 2006 - Curs postuniversitar: Securitatea Muncii
6. 2006 - Curs postuniversitar: Auditul Securității și Sănătății în Muncă
7. 2006 - Curs postuniversitar: Managementul Securității și Sănătății în Muncă
8. 2003 - Curs Sănătate și Securitate în Muncă
9. 2002 - Curs Inspector Resurse Umane

**G. Membru în comitete de organizare sau comitete științifice ale conferințelor/colective de redacție ale unor reviste**

Colectivul ştiinţific-Universitatea "Constantin Brâncuşi" din Târgu-Jiu, Revista Fiabilitate şi Durabilitate / Fiability and Durability, https://www.utgjiu.ro/rev_mec/?page=comitet

Student-doctorand

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