Model F17 - Memoriul științific al studentului doctorand

MEMORIU ȘTIINȚIFIC
Drd. PÎRVU (căs. Grigorescu) Florentina Alina

Studii de doctorat

Perioada: 01.10.2022 – 21.07.2026
Conducător științific: Prof.dr.ing. Cezar SCARLAT
Domeniu: inginerie industrială
Titlul tezei de doctorat: Un cadru conceptual pentru identificarea timpurie a semnalelor slabe STEM: Aplicații și implicații în alegerea carierei inginerești

Activitate științifică

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

1. Pîrvu, F. A. (2022). Technology in teaching and learning in Romania. M. P. C. Carmo & C. V. Esteves (Eds.), *Education and New Developments 2022*, *2*, 343–347. Madeira Island, Portugal: inScience Press. https://doi.org/10.36315/2022v2end077
2. Grigorescu, A. F. P., & Scarlat, C. (2023). Online technologies in teaching and learning: Lessons learnt while teaching during COVID-19 pandemic in Romania—Towards a "dual" education system. *Book chapter*. In *M. Carmo (Ed.), Education Applications & Developments VIII: Advances in Education and Educational Trends Series*, 63-80. inScience Press. https://doi.org/10.36315/2023eadVIII06
3. Grigorescu (Pîrvu), F. A., Scarlat, C., & Ioanid, A. (2023). The Future of Learning in Romanian Schools: Examining the Transformative Impact of Gaming Technologies in Education—A Pilot Study in Bucharest. In *Mesquita, A., Abreu, A., Carvalho, J.V., Santana, C., de Mello, C.H.P. (Eds.). Perspectives and Trends in Education and Technology. ICITED 2023*. Smart Innovation, Systems and Technologies, 366. Singapore: Springer Nature Singapore. https://doi.org/10.1007/978-981-99-5414-8_44
4. Grigorescu (Pîrvu), F. A. (2023). Comparison of the learning process of high school students before, during, and after the pandemic. In *M. Carmo (Ed.), Education and New Developments 2023, 2*, 405–409. Lisbon, Portugal: inScience Press. https://doi.org/10.36315/2023v2end092
5. Grigorescu, F. A. (2023). The Use of New Educational Technologies for Preparing Students in Engineering: An innovative perspective on entrepreneurship and competitiveness. *International Conference of Management and Industrial Engineering,* 11. 115-122. Bucharest, Romania. https://doi.org/10.56177/11icmie2023
6. Grigorescu, F. A. (2024). Preparing Students for Successful Business Careers in a Changing Society: Good Practices from a Private High School in Romania. *Book chapter.* In *Busu, M. (Ed.), Rethinking Business for Sustainable Leadership in a VUCA World. ICBE 2023*. Springer Proceedings in Business and Economics. 181-192. Springer, Cham. https://doi.org/10.1007/978-3-031-50208-8_11
7. Grigorescu (Pîrvu), F. A. (2024). Exploring the educational potential of video games in the digital age. In *L. Alexandrescu (Ed.), Proceedings of the 10th International Conference on Advanced Materials and Systems*, 88–94. Sciendo, Warsaw, Poland. https://doi.org/10.2478/9788367405805-012
8. Grigorescu, F. A. P., & Scarlat, C. (2024). Early detection of STEM skills during secondary education. A weak signals approach. In *M. Carmo (Ed.), Education and New Developments*, *1*, 305-309. Porto, Portugal: inScience Press. https://doi.org/10.36315/2024v1end070
9. Grigorescu, F. A. (2025). Building resilience in students for STEM careers. *Proceedings of the International Conference on Business Excellence*, *19*(1), 4238-4249. Sciendo. https://doi.org/10.2478/picbe-2025-0002

10. Grigorescu (Pîrvu), F. A., & Scarlat, C. (2025). Predicting success in engineering studies: Challenges of early detection of weak signals of STEM-related aptitudes. In *M. Carmo (Ed.), Education and New Developments 2025*, *1*, 287-291. Budapest, Hungary: inScience Press. https://doi.org/10.36315/2025v1end067

11. Grigorescu, F. A. (2025). The importance of teachers' leadership in shaping students prepared for the challenges of the technology-driven society of tomorrow. *Proceedings of the 12th International Conference of Management and Industrial Engineering (ICMIE),* "Agility and Readiness for Sustainable Business Continuity", Bucharest, Romania, *12,* 367-374. https://doi.org/10.56177/12icmie2025.120

12. Grigorescu, F. A. (2025). Managing teachers' well-being–a pillar of sustainable development in education. *Proceedings of the 12th International Conference of Management and Industrial Engineering (ICMIE),* "Agility and Readiness for Sustainable Business Continuity", Bucharest, Romania, *12*, 411-418. https://doi.org/10.56177/12icmie2025.119

13. Grigorescu, A. F., Scarlat, C., & Simion, P. C. (2025). Dropping out of higher education as a result of conflicts. How to manage it. *FAIMA Business & Management Journal*, Politehnica Press – National University of Science and Technology Politehnica Bucharest, Romania*, 13(3),* 82-94.

14. Dogaru, M., Negreanu, M. C., Pisică, O., & Pîrvu, A. F. (2025). STEM career: essential factors for students to achieve success in STEM (supportive individuals, skills/abilities, motivational factors). *Frontiers in Education*, *10*, 1611178. https://doi.org/10.3389/feduc.2025.1611178

15. Dogaru, M., Negreanu, M. C., Pisică, O., & Pîrvu, A. F. (2025). STEM education resilience in resilient organizations: A systematic review. *Frontiers in Education*, *10*, 1611163. https://doi.org/10.3389/feduc.2025.1611163

16. Dogaru, M., Negreanu, M. C., Pisică, O., & Pîrvu, A. F. (2025). Instructional Leadership as a Predictor of Resilience and Well-Being in STEM Learning: A Systematic Review. *Frontiers in Education*, *10*. 1652584. https://doi.org/10.3389/feduc.2025.1652584

17. Grigorescu (Pîrvu), F. A., Scarlat, C., & Ioanid, A. (2026). Does Finish Education System Matter for Choosing Future Career Path? A Comparative Study Among the Eighth Graders. In *M. Carmo (Ed.), Education and New Developments 2026*, 2, 607–611. Madeira Island, Portugal: inScience Press.

18. Grigorescu (Pîrvu), F. A., Scarlat, C., & Nicolae, A. (2026). A Pilot Study on the Effects of Involving the Secondary School Students in JAR (Junior Achievement Romania) Activities on Their Entrepreneurial Intentions. In *M. Carmo (Ed.), Education and New Developments 2026, 2, 607–611. Madeira Island, Portugal: inScience Press.*

19. Grigorescu (Pîrvu), F. A., & Scarlat, C., (2026). A Framework for Early Detection of Weak Signals Of STEM-Related Aptitudes. *Book chapter.* In *M. Carmo (Ed.), Education Applications & Developments IX: Advances in Education and Educational Trends Series*. inScience Press, 99-112. https://doi.org/10.36315/2026eadXIprtI09

20. Grigorescu (Pîrvu), F. A., & Scarlat, C. (2027). Early Detection of Weak STEM Signals towards STEM Achievement: Preliminary Results of a Pilot Study Among Eighth Graders. In S. Assayed, O. Khalili, & S. Alsayed (Eds.), *Adaptive Learning Systems and Their Impact on STEM Achievement*. *Book chapter*. IGI Global Scientific Publishing. 251-282. https://doi.org/10.4018/979-8-3373-9330-8.ch010

B. Cărți și manuale

1. Dogaru, M., Negreanu, M. C., Pisică, O., & Grigorescu, F. A. (2026). Leadership, Reziliență și Stare de bine – conexiuni valorice cu modelul educațional STEM: impact asupra succesului în învățământul profesional tehnic. *Editura Didactică și Pedagogică*, București. ISBN: 978-606-31-2254-1

C. Participări la conferințe/workshop-uri

1. Education and New Developments 2022, Madeira Island, Portugal, 18-20 iunie 2022
2. International Conference on Business Excellence 2023, Bucharest, Romania, 23-25 martie 2023
3. International Conference in Information Technology and Education 2023, Manaus, Brazil, 29-30 iunie 2023
4. International Conference of Management and Industrial Engineering 2023, Bucharest, Romania, 16-17 noiembrie 2023
5. Education and New Developments 2023, Lisbon, Portugal, 24-26 iunie 2024
6. International Conference on Advanced Materials and Systems 2024, Bucharest, Romania, 30-31 octombrie 2024
7. Education and New Developments 2024, Porto, Portugal, 15-17 iunie 2024
8. International Conference on Business Excellence 2025, Bucharest, Romania, 20-22 martie 2025
9. Education and New Developments 2025, Budapest, Hungary, 28-30 iunie 2025
10. International Conference of Management and Industrial Engineering 2025, Bucharest, Romania, 6-7 noiembrie 2025
11. Education and New Developments 2026, Madeira Island, Portugal, 20-22 iunie 2026

D. Proiecte de cercetare științifică

1. ARUT – *Rolul managerial al profesorului în identificarea timpurie și evaluarea competențelor de bază (basic skills) STEM în vederea orientării în carieră în învățământul tehnic, cu scopul asigurării stării de bine a elevilor și creșterii rezilienței*

Student-doctorand

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