

Lista de lucrări

Numele și prenumele: HARANGUS Katalin (născ. Jakab)

LISTA COMPLETĂ DE PUBLICAȚII, CREAȚII, INVENȚII

A. Teza de doctorat

Contribuții la determinarea, prin metode nedistructive, a caracteristicilor mecanice la materialele ortotrope. Conducător științific: prof. dr. ing. Ioan Száva, Universitatea „Transilvania” din Brașov, Facultatea de Inginerie Mecanică, (susținerea publică pe 11 decembrie 2013).

B. Cărți publicate

B1. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate la edituri recunoscute în străinătate.

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B2. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

1. **Harangus Katalin.** *Számítógéppel támogatott oktatás* (Instruire asistată de calculator), Editura Scientia, Cluj-Napoca, (2021), p. 204, ISBN: 978-606-975-052-0. http://real.mtak.hu/132662/1/2021-HarangusSzamitogeppel_REAL.pdf
2. **Harangus Katalin.** Kakucs András, *Valószínűségsszámítás és statisztika a mérnöki gyakorlatban* (Probabilitate și statistică în practica inginerescă), Editura Erdélyi Múzeum Egyesület, Cluj-Napoca, (2021), p. 185, ISBN: 978-606-739-181-7, DOI: [10.36242/mtf-15](https://www.eme.ro/publication-hu/mtf/borito+pdf/mtf15.pdf), <https://www.eme.ro/publication-hu/mtf/borito+pdf/mtf15.pdf>

B3. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate la alte edituri sau pe plan local.

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B4. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. **Harangus Katalin.** *A szakmódszertan elmélete és gyakorlata mérnök alapszakos hallgatók számára* (Teoria și practica metodologiei pentru studenții ingineri), Universitatea Sapientia, Departamentul de Specialitate cu Profil Psihopedagogic, (2021), p.107, ISBN 978-973-0-35759-2, <http://opac3.ms.sapientia.ro/hu/record/-/record/RECORD120318>
2. **Harangus Katalin.** *Statisztika* (Statistică), p.120 + 4 prezentare video, (2018): <https://elearning.uni-obuda.hu/workground>, (2021): <https://moodle.ms.sapientia.ro/course/index.php?categoryid=8>
3. **Harangus Katalin.** *Gyakorlati útmutató mérnök alapszakos pedagógusjelöltek számára* (Îndrumar laborator pentru studenții de la specializările ingineresti), (2021), p.106, <https://www.ms.sapientia.ro/~harangus/Laboratoriumi%20utmutato.pdf>

B5. Capitoare de cărți publicate în străinătate

1. **Harangus Katalin,** Horváth Zsófia, Szentes Erzsébet. (2023). Tanárképzős hallgatók eszközhasználatának vizsgálata (a tanítás és a tanulás szempontjából), In. *Szakképzés-*

Pedagógia Tudományos Közlemények (szerk. Benedek András), Kiadó BME Gazdasági- és Társadalomtudományi Kar Műszaki Pedagógiai Tanszék, Budapest, (2023), ISSN 2786-1856.

2. Kakucs, A., Kátai, Z., **Harangus, K.** (2023). A Context-Based Approach to Teaching Dynamic Programming. In: Yadav, R.P., Nanda, S.J., Rana, P.S., Lim, MH. (eds) *Proceedings of the International Conference on Paradigms of Computing, Communication and Data Sciences. Algorithms for Intelligent Systems*, vol. p. 671-683, Springer Nature, Singapore, ISBN: 978-981-19-8741-0. https://doi.org/10.1007/978-981-19-8742-7_53
3. Kakucs András, Kátai Zoltán, **Harangus Katalin**. Algoritmus vizualizációk a dinamikus programozás oktatásában (Vizualizării algoritmilor în predarea programării dinamice). In. *Szakképzés-Pedagógia Tudományos Közlemények* (Vocational Training Pedagogical Scientific Publications) (ed. Benedek András), Editura BME Gazdasági- és Társadalomtudományi Kar Műszaki Pedagógiai Tanszék, Budapest, (2022), p. 167-181, ISSN 2786-1856.
4. **Harangus K.**, A szemléletváltás szükségessége a pedagógusképzésben: digitáliskompetencia-mérés. In. *Szakképzés-Pedagógia Tudományos Közlemények* (szerk. Benedek András), BME Gazdasági- és Társadalomtudományi Kar Műszaki Pedagógiai Tanszék Kiadó, Budapest, 2021, p. 49-59, ISSN 2786-1856
5. **Harangus Katalin**. Mérnök szakos hallgatók problémamegoldó képességének empirikus vizsgálata (Studiul empiric al abilităților de rezolvare a problemelor în rândul studenților de inginerie). In. *Szakképzés-Pedagógia Tudományos Közlemények* (Metodologii și alte studii antropocentrism) (ed. Karlovitz János Tibor, Torgyik Judit), Editura International Research Institute, Komárno, (2019), p. 185-192, ISBN 978-80-89691-52-4 doi: [10.18427/iri-2019-0036](https://doi.org/10.18427/iri-2019-0036)
6. **Harangus Katalin**. Tanárképzős hallgatók algoritmikus gondolkodásának empirikus vizsgálata (Cercetarea empirică privind gândirea algoritmică în educația pentru formarea profesorilor) In. *Elmélet és gyakorlat a neveléstudományok és szakképzéstanok köréből* (Teoria și practica din domeniul științelor educaționale și didactica specialității), (ed. Karlovitz János Tibor), Editura International Research Institute, Komárno, (2018), p. 236-241, ISBN 978-80-89691-52-4 doi: [10.18427/iri-2018-0031](https://doi.org/10.18427/iri-2018-0031)
7. **Harangus Katalin**. IKT eszközök hasznosulása a romániai magyar tannyelvű szakképzésben (Valorificarea TIC în educația profesională minoritară) In. *Válogatott tanulmányok a pedagógiai elmélet és szakképzéstanok köréből* (Eseuri selectate din domeniul teoria pedagogiei și didactica specialității) (ed. Karlovitz János Tibor), Editura International Research Institute, Komárno, Slovakia, (2017), p. 380-386, ISBN 978-80-89691-40-1 doi: [10.18427/iri-2017-0052](https://doi.org/10.18427/iri-2017-0052)

B6. Capitole de cărți publicate în țară la edituri recunoscute CNCSIS

1. **Harangus Katalin**. (2025). A tanárképzősök digitális kompetenciája elegendő-e tananyag készítéséhez? (Studenții de la DPPD au competențe digitale suficiente pentru a elabora materiale didactice?). In. *Anyanyelvoktatás – Eszmény és gyakorlat a pedagógusképzésben* (Predarea limbii materne. Idealul și practica în formarea profesorilor), (ed. Pletl Rita). Editura Ábel, Cluj-Napoca, p. 36-49. ISBN 978-973-114-340-8.
2. Horváth Zsófia-Irén, Szentes Erzsébet, **Harangus Katalin**, Az értékteremtés útján. In: Fazakas Noémi-Harangus Katalin-Kovács Gabriella-Nagy Imola-Suba Réka (szerk.):

- „Nem a mennyiség, hanem a minőség a szellemi erőnek sarkalata”. – Köszöntőkötet Pletl Rita tiszteletére, Kolozsvár, Scientia Kiadó, 2023, p.23-28. ISBN 978-606-975-082-7
3. **Harangus Katalin.** Digitális tananyag szerepe a kompetenciafejlesztésben (Rolul curriculum-ului digital în dezvoltarea competențelor). In. *Anyanyelvoktatás – A pedagógusjelöltek köznevelési feladatokra való felkészítése* (Predarea limbii materne. Pregătirea studenților pentru sarcini din învățământ), (ed. Pletl Rita). Editura Ábel, Cluj-Napoca, (2023), p. 81-94. ISBN 978-973-114-314-9.
 4. **Harangus Katalin.** A digitális kompetencia fejlettségi szintje tanárképzős hallgatók körében (Nivelul de dezvoltare a competențelor digitale în rândul studenților participanți la pregătire psihopedagogică). In. *Anyanyelvoktatás – A pedagógusképzés próbatétele: nevelés és oktatás egyensúlyának megteremtése* (Predarea limbii materne. Problema formării cadrelor didactice: realizarea echilibrului între educație și formare), (ed. Pletl Rita). Editura Ábel, Cluj-Napoca, (2022), p. 81-94. ISBN 978-973-114-299-9.
 5. **Harangus Katalin.** Az online alkalmazások eszköztárának hasznosítása a pedagógusképzésben (Aplicații online în formarea cadrelor didactice), In. *Anyanyelvoktatás. Problémafeltáró vizsgálatok – problémamegoldó törekvések* (Predarea limbii materne. Studii pentru exploatarea problemelor – eforturi de rezolvare a problemelor), (ed. Pletl Rita). Editura Ábel, Cluj-Napoca, (2021), p. 29-49, ISBN 978-973-114-287-6.
 6. **Harangus Katalin.** Mérnök-tanárképzés kihívásai digitalizált világunkban (Provocările educației ingineresti în rândul studenților participanți la pregătirea psihopedagogică într-o lume digitalizată), In. *Anyanyelvoktatás. Érdekegyeztetés és együttműködés közoktatás és tanárképzés között* (Predarea limbii maghiare. Cooperarea între învățământul preuniversitar și educație pentru formarea profesorilor), (ed. Pletl Rita), Editura Ábel, Cluj-Napoca, (2020), p. 112-123. ISBN 978-973-269-2.
 7. **Harangus Katalin.** A komplex problémamegoldó képesség fejlettsége tanárképzős hallgatók körében (Nivelul de dezvoltare a capacității de rezolvare a problemelor complexe în rândul studenților), In. *Anyanyelvoktatás. A feladatmegoldástól a problémamegoldásig* (Predarea limbii maghiare. De la rezolvarea exercițiilor la soluționarea problemelor complexe), (ed. Pletl Rita), Editura Ábel, Cluj-Napoca, (2019), p. 66-77. ISBN 978-973-114-261-6.
 8. Kovács Gabriella, **Harangus Katalin.** Kognitív műveletek alkalmazásának vizsgálata fordító szakos hallgatók körében (Investigația aplicării operațiilor cognitive în rândul studenților de la specializarea Traducere), In. *Anyanyelvoktatás. A feladatmegoldástól a problémamegoldásig* (Predarea limbii maghiare. De la rezolvarea exercițiilor la soluționarea problemelor complexe), (ed. Pletl Rita), Editura Ábel, Cluj-Napoca, (2019), p.78-85. ISBN 978-973-114-261-6.
 9. **Harangus Katalin.** A problémamegoldó képesség vizsgálata a középiskolások és a tanárképzős hallgatók körében (Analiza capacității de rezolvare a problemelor în rândul elevilor și studenților). In. *Anyanyelvoktatás. Új kihívások— a tudás fogalmának változása.* (Predarea limbii maghiare. Noi provocări – Schimbarea conceptului cunoașterii), (ed. Pletl Rita), Editura Ábel, Cluj-Napoca, (2018), p. 71-86, ISBN 978-973-114-251-7.
 10. **Harangus Katalin.** Tatai Csilla, Sántha Ágnes, Kovács Réka Rozália, Az e-egészségügy lehetőségei és korlátai (E-sănătate: posibilități și limitări), In. *Egészségünk közös ügyünk* (Sănătatea noastră - cauza noastră comună), (ed. Tati Csilla, Kovács Réka Rozália), Editura Scientia, Cluj-Napoca, (2018), p. 160-169, ISBN 978-606-975-008-7.

11. Szentes Erzsébet, **Harangus Katalin**. IKT-s eszközök használata a tanulási folyamatban, továbbtanulással, elhelyezkedéssel kapcsolatos célok a szakközépiskolások körében (Utilizarea TIC în procesul de învățare, obiectivele privind continuarea studiilor, angajarea în rândul elevilor din liceul profesional), In. *Egészségünk közös ügyünk* (Sănătatea noastră - cauza noastră comună), (ed. Tati Csilla, Kovács Réka Rozália), Editura Scientia, Cluj-Napoca, (2018), p. 131-142, ISBN 978-606-975-008-7.
12. Sántha Ágnes, **Harangus Katalin**, Tatai Csilla, Szabadi Ernő, Kovács Réka Rozália. A munka és a magánélet egyensúlya a Maros megyei magyarok körében (Echilibrul carierei profesionale și a vieții private în rândul populației maghiare din județul Mureș), In. *Egészségünk közös ügyünk* (Sănătatea noastră - cauza noastră comună), (ed. Tati Csilla, Kovács Réka Rozália), Editura Scientia, Cluj-Napoca, (2018), p. 170-180, ISBN 978-606-975-008-7.
13. Tatai Csilla, Sántha Ágnes, **Harangus Katalin**, Kovács Réka Rozália. A Maros megyei vidéki és városi lakosság egészségi állapotának és az egészségügyi szolgáltatásokkal való elégedettségének összehasonlító elemzése (Analiză comparativă a stării de sănătate și satisfacția față de serviciile de sănătate în rândul populației urbane și rurale din județul Mureș), In. *Egészségünk közös ügyünk* (Sănătatea noastră - cauza noastră comună), (ed. Tati Csilla, Kovács Réka Rozália), Editura Scientia, Cluj-Napoca, (2018), p. 181-190, ISBN 978-606-975-008-7.
14. **Harangus Katalin**. Az IKT eszközök vs. az e-learning a romániai magyar tannyelvű szakoktatásban (ICT vs. e-learning în învățământul profesional), In. *Anyanyelvoktatás – A magyar tannyelvű szakképzés jelene és jövőbeli kilátásai* (Predarea limbii materne – Educația profesională actuală în limba maternă și perspectivele viitoare), (ed. Pletl Rita), Editura Ábel, Cluj-Napoca, (2017), p. 36-50, ISBN 978-973-114-246-3.
15. Kátai Zoltán, **Harangus Katalin**. Szövegértelmezés vs. számítógépes gondolkodás a tanárképzős hallgatók körében (Interpretarea textului vs. gândire algoritmică în rândul studenților), In. *Anyanyelvoktatás – A magyar tannyelvű szakképzés jelene és jövőbeli kilátásai* (Predarea limbii materne – Educația profesională actuală în limba maternă și perspectivele viitoare), (ed. Pletl Rita), Editura Ábel, Cluj-Napoca, (2017), p. 85-95, ISBN 978-973-114-246-3.
16. **Harangus Katalin**. Algoritmikus gondolkodás: felfedezés vs. végrehajtás (Gândire algoritmică: descoperire vs. executare) In. *Anyanyelvoktatás. Adottságok és lehetőségek a magyar tannyelvű szakképzésben* (Predarea limbii materne – Aptitudini și oportunități ale educației profesionale minoritare), (ed. Pletl Rita), Editura Ábel, Cluj-Napoca, (2016), p. 58-68, ISBN 978-973-114-224-1.
17. **Harangus Katalin**. Információs és kommunikációs technológiák ismerete és fontosságuk a tanárképzésben (Importanța dezvoltării competențelor ICT în educația profesională în limba maternă) In. *Anyanyelvoktatás. A magyar tannyelvű szakközépiskolai oktatás helyzete* (Predarea limbii materne - Situația educației în liceele tehnologice cu limba de predera maghiară), (ed. Pletl Rita), vol. 5, Editura Ábel, Cluj-Napoca, (2015), p. 38-61, ISBN 978-973-114-210-4.
18. **Harangus Katalin**. Anyanyelvi kompetenciák: jelen és jövő a mérések tükrében (Competențele limbii materne: prezent și viitor în oglinda măsurătorilor). In. *Anyanyelvoktatás – Irányok és törésvonalak* (Predarea limbii materne – Direcții și rupturi), (ed. Pletl Rita), Editura Ábel, Cluj-Napoca, (2014), p. 63-84, ISBN 978-973-114-190-9.

19. **Harangus Katalin.** A vizsgálati minta és statisztikai elemzése (Analiza eșantionului și interpretarea statistică). In: *Anyanyelvoktatás – nyelvi horizontok* (Predarea limbii materne – orizonturi lingvistice), (ed. Pletl Rita), Editura Societatea Muzeului Ardelean: Scientia, Cluj-Napoca, (2012), p. 149-170, ISBN 978-606-8178-51-6, ISBN 978-973-1970-64-6.

C. Lucrări științifice publicate

C1.1. Lucrări științifice publicate în reviste cotate ISI

1. **Harangus Katalin,** Kakucs András. Mass-Measurement-based Automatization of the Engler-Viscometer. *Acta Polytechnica Hungarica*, Vol. 18, No. 5, (2021), 77-92. DOI: 10.12700/APH.18.5.2021.5.6, WOS:000508186400148 [IF: 1.806]
2. Bakos Levente, Dumitrașcu Dănuț Dumitru, **Harangus Katalin.** Human Factor Preparedness for Decentralized Crisis Management and Communication in Cyber-Physical Systems, *Sustainability*, 11(23), (2019), 6676 (p. 19). <https://doi.org/10.3390/su11236676>, WOS:000508186400148 [IF: 2.59]

C1.2. Lucrări științifice publicate în reviste indexate WOS și Scopus

1. Horváth, ZI., Szentes, E., **Harangus, K.** (2024). First-Year and Graduate Teacher Training Students' Views on the Teaching Career. In: Auer, M.E., Cukierman, U.R., Vendrell Vidal, E., Tovar Caro, E. (eds) Towards a Hybrid, Flexible and Socially Engaged Higher Education. ICL 2023. Lecture Notes in Networks and Systems, vol 911. Springer, Cham. https://doi.org/10.1007/978-3-031-53382-2_30, WOS:001263969400030
2. **Harangus, K.,** Kakucs, A., Kovács, G. (2023). Mathematical Model for Estimating Mother Tongue Competencies and Learning Outcomes. In: Auer, M.E., Pachatz, W., Rüütman, T. (eds) *Learning in the Age of Digital and Green Transition. ICL 2022. Lecture Notes in Networks and Systems*, vol 634, p. 769–776. Springer, Cham, ISBN: 978-3-031-26189-3. https://doi.org/10.1007/978-3-031-26190-9_80 [Scopus]
3. Kakucs, A., **Harangus, K.** (2023). Didactic Tool for Intuitive Random Process Visualization. In: Auer, M.E., Pachatz, W., Rüütman, T. (eds) *Learning in the Age of Digital and Green Transition. ICL 2022. Lecture Notes in Networks and Systems*, vol 634, p. 649–656. Springer, Cham, ISBN: 978-3-031-26189-3. https://doi.org/10.1007/978-3-031-26190-9_68 [Scopus]
4. Horváth, ZI., Szentes, E., **Harangus, K.** (2023). The Relationships Between Career Image and Teaching Intention Among First-Year Engineering Teacher Training Students. In: Auer, M.E., Pachatz, W., Rüütman, T. (eds) *Learning in the Age of Digital and Green Transition. ICL 2022. Lecture Notes in Networks and Systems*, vol 634, p. 544–552. Springer, Cham, ISBN: 978-3-031-26189-3. https://doi.org/10.1007/978-3-031-26190-9_57 [Scopus]
5. **Harangus Katalin,** Kovács Gabriella. Digital Competence of Language Teacher Trainees. A Comparative Study, *Acta Universitatis Sapientiae, Philologica*, 14(2), (2022), 1–14 [Scopus, Q3]
6. **Harangus Katalin,** Horváth Zsófia, Kovács Gabriella. Changes and Perspectives in Teacher Training Methodology, *Acta Universitatis Sapientiae, Philologica*, 13(2), (2021), 55–70, DOI: 10.2478/ausp-2021-0013 [Scopus, Q2]
7. Szentes Erzsébet, Horváth Zsófia-Irén, **Harangus Katalin.** The Role of Humour in Teaching: Teacher Training Students' Image of Teacher and Views on Teaching. *Acta*

Universitatis Sapientiae, Philologica, 12(2) (2020), 84–98. DOI: 10.2478/ausp-2020-0014 [Scopus, Q3]

8. **Harangus Katalin**, Kátai Zoltán. Computational Thinking in Secondary and Higher Education, *Procedia Manufacturing*, [Elsevier], Volume 46, (2020), 615-622. <https://doi.org/10.1016/j.promfg.2020.03.088> [Scopus, Q2], WOS:000582466200087
9. **Harangus Katalin**. Examining the relationships between problem-solving and reading comprehension skills. *New Trends and Issues Proceedings on Humanities and Social Sciences*. 6(5), (2019), 066–074. DOI: 10.18844/prosoc.v6i5.4375 WOS:000539484300008
10. Kovács Gabriella, **Harangus Katalin**. Translator Trainees' Reading Literacy, Problem Solving, and Translation Skills. A Comparative Study. *Acta Universitatis Sapientiae, Philologica*, 11, 3, (2019), 141–157. DOI: [10.2478/ausp-2019-0031](https://doi.org/10.2478/ausp-2019-0031) [Scopus Q4]
11. **Harangus Katalin**, Kátai Zoltán. Algorithmic Thinking vs. Text Comprehension, *Procedia Manufacturing*, [Elsevier], Volume 22, (2018), 1031-1037. <https://doi.org/10.1016/j.promfg.2018.03.146> WOS:000456199200144 [Q2]
12. **Harangus Katalin**. Examining Computational Thinking through Logic Tasks, *The Turkish Online Journal of Educational Technology*, 3, (2018), 172-178, ISSN: 2146-7242. [Q4]
13. **Harangus Katalin**, Horváth Zsófia-Irén, Szentes Erzsébet. The specific situation of vocational education in hungarian language in Romania: ICT vs. e-learning, *Turkish Online Journal of Educational Technology*, Special Issue for IETC (2017), 818-825, ISSN: 2146-7242. [Scopus]
14. **Harangus Katalin**, Szentes Erzsébet. The Role of Information Technology and Labor Market Orientation in Vocational Training, *New Trends and Issues Proceedings on Humanities and Social Sciences*, Vol. 3, No. 3, (2017), 62-69, ISSN 2421-8030. DOI: <http://dx.doi.org/10.18844/gjhss.v3i3.1615> WOS:000462228400009
15. **Harangus Katalin**, Kakucs András. Finite-difference solution using displacement potential function for plane stresses and displacements. *Procedia Technology*, [Elsevier], 12, (2014), 394-400, ISSN 2212-0173. doi: 10.1016/j.protec.2013.12.505 WOS:000335391100057
16. Gálfi Botond, Száva János, Borbás Lajos, Szalai József, **Harangus Katalin**. Stand and preliminary testing results on disc-shape hardwood specimens obtained with video image correlation method. *9th Youth Symposium on Experimental Solid Mechanics*, Trieste, Italy, (2010), 9-12, ISBN 978-88-95940-30-4. [Scopus], WOS:000392625300002
17. Száva János, Perețeanu Karol-Constantin, **Harangus Katalin**. New Testing Device for Time Dependent Glue Behaviour Analysis by mean of Holographic Interferometry. *Wood Structure and Properties '06*, Arbora Publishers, Zvolen, Slovakia, (2006), 409-411, ISBN-80-968869-4-3. WOS:000279590300073

C2. Lucrări științifice publicate în reviste indexate în baze de date internaționale

1. Kakucs András, **Harangus Katalin**, Király Zsolt. (2025). Bűvös négyzet (Magic square), *Műszaki Tudományos Közlemények*, 23, p. 28-37. DOI: Magyar: <https://doi.org/10.33895/mtk-2025.23.05> Angol: <https://doi.org/10.33894/mtk-2025.23.05>
2. **Harangus Katalin**, Kakucs András. Véletlenszám-generátor (Random number generator). *Műszaki Tudományos Közlemények* 18., (2023), p. 37–44. <https://doi.org/10.33894/mtk-2023.18.07>

3. Nagy Zsuzsanna Timea, **Harangus Katalin**. Examining the mathematical thinking of disadvantaged students. *Journal of Applied Technical and Educational Sciences*, 11(4), (2021), 1-13, ArtNo: 289. <https://doi.org/10.24368/jates.v11i4.289>
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E. Editare, coordonare de volume

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F. Brevete de invenții și alte titluri de proprietate

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G. Contracte de cercetare

1. **2025:** *Gândirea orientată spre rezolvarea problemelor în educația inginerescă: provocări și oportunități pentru viitorii profesioniști*, finanțator Domus Hungarica, Academia Maghiară de Științe, cercetare individuală.
2. **2024:** *Necesitatea schimbării mentalității în formarea cadrelor didactice: evaluarea competențelor digitale (etapa III.)*, finanțator Domus Hungarica, Academia Maghiară de Științe, cercetare individuală.
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7. **2019** *Introducerea metodelor moderne în educația tehnologică pentru formarea cadrelor didactice din domeniul științelor ingineresti*, finanțator Domus Hungarica, Academia Maghiară de Științe.
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9. **2017-2018** *Situația socio-economică, starea de sănătate și satisfacția profesională a asistenților medicali din Transilvania*, finanțator Domus Hungarica, Academia Maghiară de Științe, membru în echipă.
10. **2017-2018** *Evaluarea capacității de rezolvare a problemelor complexe pe diferite arii curriculare (înțelegerea textului, compunerea textului, gândire matematică /computațională)*, finanțator IPC Cluj, membru în echipă.
11. **2015-2016** *Situația educației profesionale în limba maternă: problema structurii și participării (profesorilor și elevilor) într-un sistem bilingv*, finanțator IPC Cluj, membru în echipă.
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H. Creația artistică

III. RECUNOAȘTEREA

I. Premii, distincții

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J. Citări

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K. Participări cu lucrări la manifestări științifice - internaționale

1. **Harangus Katalin**, Kakucs András, *Algoritmusok felismerése és alkalmazása a problémamegoldásban* (Recunoașterea și utilizarea algoritmilor în rezolvarea problemelor), III. Imre Sándor Konferencia, Budapesta, Ungaria, 27. noiembrie 2025.
2. Kakucs András, **Harangus Katalin**, *Enhancing Engineering Education Through Experimental Mechanics: A Wheatstone Bridge-Based Teaching Tool*, 28th Interactive

- Collaborative Learning and Engineering Pedagogy, Budapest, Ungaria, 1-3 octombrie 2025.
3. **Harangus Katalin**, Kakucs András, *Digital Competence of Future Educators: Assessing the Skills of Teacher Training Students*, 9th International Academic Conference on Teaching, Learning and Education, Praga, Republica Cehă, 19-21. septembrie 2025.
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 10. Szentes Erzsébet, Horváth Zsófia-Irén, **Harangus Katalin**, *A tanári pálya és a jó pedagógus ismérvei tanárképzős hallgatók szerint*, (The teaching career and the characteristics of a good pedagogue according to teacher training institutes), I. Imre Sándor Neveléstudományi Konferencia - Oktatás Egy Változó Világban (1st Imre Sándor International Conference On Pedagogy - Education In A Changing World), BME, Budapest, Ungaria, 9-10 noiembrie 2023.
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20. **Harangus Katalin**. *Examining problem-solving skills using tasks requiring computational thinking*. 14th annual International Conference of Education, Research and Innovation, Sevilla, Spain, 8-9 noiembrie, 2021.
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29. **Harangus Katalin**. *Info-kommunikációs eszközök hasznosulása az oktatásban* (Utilizarea instrumentelor info-comunicare în educație), I. Szakképzés és Oktatás: Ma – Holnap konferencia. Fejlődés és partnerség, Budapesti Műszaki és Gazdaságtudományi Egyetem, Budapest, Magyarország, 20-21 Noiembrie 2019.
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31. **Harangus Katalin**, Kátai Zoltán. *Computational thinking in secondary and higher education*, 13th International Conference Interdisciplinarity in Engineering (INTER-ENG 2019), U.M.F.S.T. Târgu Mureș, Romania, 3-4 October 2019.
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36. **Harangus Katalin**. *Examining Computational Thinking through Logic Tasks*, International Educational Technology Conference – IETC 2018, Indiana University, USA, 8-10 august 2018.

37. Cocis Enikő, **Harangus Katalin**. *Betegjogok ismerete kórházi ellátásban részesülők körében* (Cunoașterea drepturilor pacienților în rândul pacienților spitalizați), Conferința XII. META Konferencia, Ungaria, Budapest, 9-10. mai 2018.
38. Lukács-Márton R., Sántha Á., **Harangus Katalin**. *Egészségügyi ápolók egészségmagatartása, mentális állapota* (Starea de sănătate mentală și comportamentul de sănătate a asistenților medicali), Magyar Pszichiátriai Társaság IX. Nemzeti Kongresszusa, (A 9-a Conferința Națională de Psihiatrie), Debrecen, Ungaria, 24-27 ianuarie 2018.
39. **Harangus Katalin**. *Tanárképzős hallgatók algoritmikus gondolkodásának empirikus vizsgálata* (Cercetarea empirică privind gândirea algoritmică în educația pentru formarea profesorilor), V. Neveléstudományi és Szakmódszertani Konferencia (A 6-a Conferință de Cercetare Educațională și Metodologie), International Research Institute s.r.o., Stúrovo, Slovacia, 14-15 ianuarie 2018.
40. **Harangus K.**, Kátai Z., *Algorithmic Thinking vs. Text Comprehension*, 11th International Conference Interdisciplinarity in Engineering, INTER-ENG 2017, Tirgu-Mures, Romania, 5-6 October 2017.
41. **Harangus Katalin**, Horváth Zs., Szentes E., *The specific situation of vocational education in hungarian language in romania: ICT vs. e-learning*, 7th International Educational Technology Conference - IETC 2017, Harvard University Faculty Club in Cambridge, MA, USA, August 16-18, 2017.
42. Sántha Á., **Harangus Katalin**, Kovács R. R., Tatai Cs., *The Social Determinants of Health in the Adult Hungarian Population of Mures County, Romania*, 2nd International Conference on Non-communicable Diseases (ICONiC): Hold the Door Against Injury and Disease, Universitatea Babes-Bolyai - Cluj School of Public Health, Center for International Rural and Environmental Health, The University of Iowa, 22-24 mai 2017
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44. **Harangus K.**, Szentes E., *The Role of Information Technology and Labor Market Orientation in Vocational Training*, 5th Cyprus International Conference on Educational Research, Girne University, Kyrenia, North Cyprus, 31 March – 02 April 2016.
45. **Harangus K.**, Horváth Zs., Kovács G., *A study of trainee-teachers' image of practicing teachers and their ICT expectations*, 6th World Conference on Learning, Teaching and Educational Leadership, CIEP Paris, France, 29-31 October 2015.
46. **Harangus K.**, *Studying the ICT Knowledge and Expectation of Education Majors*, International Conference Teacher Education in Central and Eastern Europe, Hungary, Debrecen, 18-20 June 2015.
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30 noiembrie 2025
Târgu Mureș