

**Lista de lucrări în domeniul de știință
definit de disciplinele din postul scos la concurs**

Numele și prenumele: HARANGUS Katalin (născ. Jakab)

I. LISTA PUBLICAȚIILOR RELEVANTE

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, *Valószínűségyszámítás és statisztika a mérnöki gyakorlatban*, Editura Erdélyi Múzeum Egyesület, Cluj-Napoca, 2021, p. 185, ISBN: 978-606-739-181-7, DOI: [10.36242/mtf-15](https://doi.org/10.36242/mtf-15), <https://www.emc.ro/publication-hu/mtf/borito+pdf/mtf15.pdf>
3. **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 [IF: 1.806]
4. **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>
5. 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> [IF: 2.59]
6. **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
7. 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)
8. **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>
9. **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.protcy.2013.12.505
10. **Harangus Katalin,** Kakucs András. Finite difference modeling of orthotropic materials. *Acta Univesitatis Sapientiae, Electrical and Mechanical Engineering*, 4, (2012), 70–82, ISSN 2066-8910, ISSN 2065-5916, ISSN-L 2065-5916.

II. LISTA COMPLETĂ DE PUBLICAȚII, CREAȚII, INVENȚII

A. Teza de doctorat

Contribuții la determinarea, prin metode nedistructive, a caracteristicelor 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, *Valószínűségszámítás 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://doi.org/10.36242/mtf-15), <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.** A szemléletváltás szükségessége a pedagógusképzésben: digitáliskompetencia-mérés (Necesitatea schimbării de atitudine în educația pentru formarea profesorilor: măsurarea competențelor digitale). In. *Szakképzés-Pedagógia Tudományos Közlemények* (Vocational Training Pedagogical Scientific Publications) (ed. Benedek András), Editura BME Gazdasági- és Társadalomtudományi Kar Műszaki Pedagógiai Tanszék, Budapest, (2021), p. 49-59, ISSN 2786-1856

2. **Harangus Katalin.** Mérnök szakos hallgatók problémamegoldó képességének empirikus vizsgálata (Studiul empiric al abilităților de rezolvare a problemelor în rândul studenților de inginerie). In. *Szaktudományok és más emberközpontú tanulmányok* (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)
3. **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 szaktudományok 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)
4. **Harangus Katalin.** IKT eszközök hasznosulása a romániai magyar tannyelvű szakképzésben (Valorificarea TIC în educația profesională minoritară) In. *Válogatott tanulmányok a pedagógiai elmélet és szaktudományok 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. Capitle de cărți publicate în țară la edituri recunoscute CNCSIS

1. **Harangus Katalin.** Az online alkalmazások eszköztárának hasznosítása a pedagógusképzésben (Aplicații online în formarea cadrelor didactice), In. *Anyanyelvoktatás. Problémamegoldó 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.
2. **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.
3. **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.
4. 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.

5. **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.
6. **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.
7. Szentés 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.
8. 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.
9. 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.
10. **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.
11. 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.
12. **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.

13. **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 tananyelvű 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.
14. **Harangus Katalin.** Anyanyelvi kompetenciák: jelen és jövő a mérések tükrében (Competențele limbii materne: prezent și viitor în oglinda măsurărilor). 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.
15. **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. **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]
2. 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]
3. **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], WOS:000582466200087
4. **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
5. 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 [Scopus]
6. **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

7. **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]
8. **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/gjihss.v3i3.1615> WOS:000462228400009
9. **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.protecy.2013.12.505 WOS:000335391100057
10. 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
11. Száva János, Pereteanu-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. **Harangus Katalin**, Horváth Zsófia-Irén, Szentes Erzsébet. Existing and to be developed teacher competences in engineer teacher training, *Contemporary Educational Researches Journal*, 10(4), (2020), 123-130. DOI: [10.18844/cej.v10i4.5212](https://doi.org/10.18844/cej.v10i4.5212)
2. Sántha Ágnes, Lukács-Márton Réka, **Harangus Katalin**. Egészségfejlesztő projektek a Sapiientia Erdélyi Magyar Tudományegyetem Életminőség Kutatóközpontjában (Health promotion projects at the Quality of Life Research Centre, Sapiientia Hungarian University of Transylvania. Research and education). *Egészségfejlesztés (Promovarea sănătății)* 59(5), (2018), 99-100. doi:<http://dx.doi.org/10.24365/ef.v59i5.377>.
3. **Harangus Katalin**. Examining Computational Thinking through Logic Tasks, *The Turkish Online Journal of Educational Technology*, 3, (2018), 172-178, ISSN: 2146-7242. [ERIC]
4. **Harangus Katalin**, Sántha Ágnes. Receptivity to eHealth Services in the Hungarian Population of Mureș County, Romania, *Acta Universitatis Sapientiae, Social Analysis*, 8 (2018), 41-54. DOI: [10.2478/aussoc-2018-0003](https://doi.org/10.2478/aussoc-2018-0003)
5. **Harangus Katalin**, Horváth Zsófia-Irén, Kovács Gabriella. A study of trainee teachers' image of practising teachers and their ICT expectations, *World Journal on Educational Technology*, Vol 8, Issue 1, (2016), 25-31, ISSN: 1309-0348. DOI: [10.18844/wjet.v8i1.497.g730](https://doi.org/10.18844/wjet.v8i1.497.g730)
6. **Harangus Katalin**, Kakucs András, Gálfi Botond. Boundary conditions in the form of loading, analyzed with finite-difference method. *Annals of the Oradea University, Fascicle of Management and Technological Engineering*, Volume XXII (XII), (2013), 99-104, ISSN 1583-0691. DOI: [10.15660/AUOFMTE.2013-1.2790](https://doi.org/10.15660/AUOFMTE.2013-1.2790)
7. **Harangus Katalin**, Kakucs András, Gálfi Botond. Plane state problem analysis with finite-difference method. *European Scientific Journal*, Special edition, No.3, (2013), 123-130, ISSN 1857-7881. DOI: <http://dx.doi.org/10.19044/esj.2013.v9n21p%25p>

8. **Harangus Katalin**. The image processing method in orthotropic material evaluation. *Research and Science Today*, 1(5), (2013), 194-203, ISSN-p 2247-4455, ISSN-e 2285-9632, ISSN-L 2247-4455. [EBSCO]
9. **Harangus Katalin**. Free-form deformation method in the evaluation of the displacement field for orthotropic materials. *Research and Science Today*, supplement 1/2013, (2013), 160-169, ISSN-e 2344-0007, ISSN-L 2344-0007. [EBSCO]
10. **Harangus Katalin**, Kakucs András, Gálfi Botond. Preliminary results of an image processing based procedure for wood structure characterization. *Pro Ligno*, Vol. 9, Nr.4, (2013), 594-600, ISSN 2069-7430, ISSN-L 1841-4737. [EBSCO]
11. **Harangus Katalin**. Model of orthotropic materials with the finite-difference method. *Research and Science Today*, 2(4), (2012), 143-154, ISSN-p 2247-4455, ISSN-e 2285-9632, ISSN-L 2247-4455. [EBSCO]
12. **Harangus Katalin**, Kakucs András. Finite difference modeling of orthotropic materials. *Acta Universitatis Sapientiae, Electrical and Mechanical Engineering*, 4, (2012), 70-82, ISSN 2066-8910, ISSN 2065-5916, ISSN-L 2065-5916. [EBSCO]
13. Gálfi Botond, Száva Ioan, Kakucs András, **Harangus Katalin**. A new analytical approach to the contribution of annual rings to the softwood elements loading capacity. *Wood Structure and Properties '10*, Arbora Publishers, Zvolen, Slovakia, (2010), 159-163, ISBN 978-80-968868-5-2. [Google Scholar]
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2. Gálfi Botond, Kakucs András, Borbás Lajos, Szalai József, **Harangus Katalin**. Video Image Correlation-one useful tool in the orthotropic materials' displacement field, evaluation. *Mechanical, Industrial and Power Engineering Ovidius University Annals of Mechanical, Industrial and Maritime Engineering*, Volume X, Tom I, (2010), 191-1-4, ISSN-1223-7221. [CNCSIS B+]

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C6. Lucrări științifice publicate în volumele manifestărilor științifice

1. **Harangus Katalin**. Examining problem-solving skills using tasks requiring computational thinking, 14th annual International Conference of Education, Research and Innovation, *ICERI2021 Proceedings*, 2021, 79-83, ISBN: 978-84-09-34549-6, ISSN: 2340-1095. doi: [10.21125/iceri.2021.0040](https://doi.org/10.21125/iceri.2021.0040)
2. **Harangus Katalin**, Horváth Zsófia-Irén, Szentes Erzsébet. Transitioning to Online Education: Experiences and Challenges. 15th International Technology, Education and Development Conference, *INTED Proceedings*, (2021), 4717-4723, ISBN: 978-84-09-27666-0 / ISSN: 2340-1079, doi: [10.21125/inted.2021.0956](https://doi.org/10.21125/inted.2021.0956)
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9. **Harangus Katalin.** Az anyanyelvi tudásszint vizsgálata és a tanulási eredményességet becsülő modell. *A Minőség és versenyképes tudás*, Universitatea Babeş-Bolyai, Cluj-Napoca, (2013), 93-98, ISBN 978-973-0-16341-4.
10. **Harangus Katalin.** A vizsgálati minta sajátosságai és az oktatási szerinti eredmények alakulására alkalmazott matematikai modell (Specificațiile eșantionului și aplicarea unui model matematic pentru evaluarea rezultatelor). CEA - 10th Conference on Educational Assessment, Szegedi Tudományegyetem Bölcsész tudományi Kar Neveléstudományi Doktori Iskola Kiadó, Szeged, 2012, ISBN 978-963-306-150-3, Abstract book, p. 60.
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D. Traduceri de cărți, capitole de cărți, alte lucrări științifice

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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. **2021** Analiza vizualizării algoritmului bazat pe context în practica predării-învățării, finanțator Domus Hungarica, Academia Maghiară de Științe, director proiect, 1.000.000 HUF (13.821 RON). Rezultate principale: capitol de carte, lucrare ISI, participare la conferință.
2. **2021** Creșterea eficienței transferului de cunoștințe cu metode moderne aplicate în educația tehnologică pentru formarea cadrelor didactice din domeniul științelor ingineresti, finanțator Domus Hungarica, Academia Maghiară de Științe, 240.000 HUF (3.317 RON).
3. **2019** Introducerea metodelor moderne în educația tehnologică pentru formarea cadrelor didactice din domeniul științelor ingineresti, finanțator Domus Hungarica, Academia Maghiară de Științe, 200.000 HUF (3.000 RON). Rezultate principale: lucrare ISI, participare la conferință.
4. **2018-2019** Starea de sănătate mentală a studenților din depresiunea carpatină. finanțator Domus Hungarica, Academia Maghiară de Științe. membru în echipă, 23.100 RON. Rezultate principale: participări la conferințe.

5. **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, 11.210 RON. Rezultate principale: participare la conferință.
6. **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, 14.000 RON. Rezultate principale: capitole de cărți, lucrări BDI, ISI, participări la conferințe.
7. **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, 16.000 RON. Rezultate principale: capitole de cărți, lucrări BDI, ISI, participări la conferințe.
8. **2015-2016** *Hungarostudy - Transilvania 2015-2016 Evaluarea globală a stării de sănătate în rândul populației maghiare din Transilvania*, finanțator IPC Cluj, membru în echipă, 15.000 RON. Rezultate principale: capitole de cărți, participări la conferințe.
9. **2013-2014** *Situația și problematica învățământului tehnic în limba maternă din perspectiva elevilor și cadrelor didactice*, finanțator IPC Cluj, membru în echipă, 7.000 RON. Rezultate principale: capitole de cărți, participări la conferințe.
10. **2006-2009** *Studiul teoretic (prin metode cu elemente finite) și practic (experimental) al protecțiilor ignifuge realizate cu vopsele intumescențe*, finanțator IPC Cluj, membru în echipă, 10.000 euro (40.990 RON). Rezultate principale: lucrări BDI.

H. Creația artistică

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III. RECUNOAȘTEREA

I. Premii, distincții

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J. Citări

1. Szava Ioan, Kakucs András, Tutunea Remus, Popa Sorin, Barna A., Gálfi Botond, Sárosi Pál, **Harangus Katalin**, Demzse Lóránd. Research Concerning on Mechanical Properties of Cylinder-Head Gasket Materials. *Transaction of the VŠB-Technical University of Ostrava, Metallurgical Series*, Vol. 1(51), (2007), p. 130-133, ISBN 978-80-248-1664-7, ISSN 0474-8484.
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10. Horváth Zsófia-Irén, *Oktatók és diákok fókuszban: hogyan tanítunk és tanulunk?* Péter Tóth – András Benedek – Gabriella Mike – Jenő Duchon (Eds.): Development and Partnership in HE without Borders, Proceedings of the 1st Conference on VET & Education, Today and Tomorrow, 2020, ISBN: 978-963-421-810-4, p. 298-303. <https://doi.org/10.1016/j.promfg.2020.03.088>
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<http://www.riti.es/ojs2018/inicio/index.php/riti/article/view/142>
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8. **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.
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14. Horváth Zsófia-Irén, *Oktatók és diákok fókuszban: hogyan tanítunk és tanulunk?* Péter Tóth – András Benedek – Gabriella Mike – Jenő Duchon (Eds.): Development and Partnership in HE without Borders, Proceedings of the 1st Conference on VET & Education, Today and Tomorrow, 2020, ISBN: 978-963-421-810-4, p. 298-303. <https://doi.org/10.1016/j.promfg.2020.03.088>
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10. **Harangus Katalin.** A komplex problémamegoldó képesség fejlettsége tanárképzős hallgatók körében (Nivelul de dezvoltare a capacității de rezolvare a problemelor complexe în rândul studenților), *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
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K. Participări cu lucrări la manifestări științifice

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2. **Harangus Katalin**. *Assessing competence in teacher education: development of university students' problem-solving skills*, 12th World Conference on Learning, Teaching and Educational Leadership (WCLTA-2021), Roma, Italia, 28-30 octombrie, 2021.
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8. **Harangus Katalin**, Horváth Zs.-I., Szentes E., *Fejlesztendő tanári kompetenciák a mérnök-tanárképzésben*, Hungarian Conference on Educational Research: Tanulás és innováció a digitális korban, 2020. május 27-28.

9. **Harangus Katalin**, Kátai Zoltán. *A problémamegoldó képesség vizsgálata a középiskolások és hallgatók körében*, I. Szakképzés és Oktatás: Ma – Holnap konferencia. Fejlődés és partnerség, Budapesti Műszaki és Gazdaságtudományi Egyetem, Budapest, Magyarország, 20-21 Noiembrie 2019.
10. **Harangus Katalin**. *Info-kommunikációs eszközök hasznosulása az oktatásban*, I. Szakképzés és Oktatás: Ma – Holnap konferencia. Fejlődés és partnerség, Budapesti Műszaki és Gazdaságtudományi Egyetem, Budapest, Magyarország, 20-21 Noiembrie 2019.
11. **Harangus Katalin**. *Existing and to be developed teacher competences in engineer teacher training*, 10th World Conference on Learning, Teaching and Educational Leadership, Athens – Greece 01-03 November 2019.
12. **Harangus Katalin**. Kátai Z., *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.
13. **Harangus Katalin**. *Examining the relationships between problem-solving and reading comprehension skills*, 8th Cyprus International Conference on Educational Research, Cyprus Science University, North Cyprus, 13-15 June 2019.
14. **Harangus Katalin**. Horváth Zs. I., *Problémamegoldó képesség fejlettsége mérnökszakos hallgatók körében*, Hungarian Conference on Educational Research, Magyar Nevelés- és Oktatáskutatók Egyesülete, Eger, 2019. május 23-24.
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16. **Harangus Katalin**. *Mérnök szakos hallgatók problémamegoldó képességének empirikus vizsgálata*, VII. Neveléstudományi és Szakmódszertani konferencia (A 7-a Conferință de Cercetare Educațională și Metodologie), International Research Institute s.r.o., Štúrovo, Szlovákia, 22-24 ianuarie 2019.
17. **Harangus Katalin**. *Examining Computational Thinking through Logic Tasks*, International Educational Technology Conference – IETC 2018, Indiana University, USA, 8-10 august 2018.
18. 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.
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20. **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., Štúrovo, Slovakia, 14-15 ianuarie 2018.
21. **Harangus K.**, Kátai Z., *Algorithmic Thinking vs. Text Comprehension*, 11th International Conference Interdisciplinarity in Engineering, INTER-ENG 2017, Tîrgu-Mureș, Romania, 5-6 October 2017.

22. **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.
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24. **Harangus Katalin**. *IKT eszközök hasznosulása a romániai magyar tannyelvű szakképzésben* (Valorificarea TIC în educația profesională minoritară), V. Neveléstudományi és Szakmódszertani Konferencia (A V-ea Konferința de știința ale educației și didactica specialității), International Research Institute s.r.o., Stúrovo, Slovakia, 15-16 ianuarie 2017.
25. **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.
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32. **Harangus Katalin**. *A vizsgálati minta sajátosságai és az oktatási szintek szerinti eredmények alakulására alkalmazott matematikai modell*, 10th Conference on Educational Assessment, Universitatea din Szeged, Ungaria, 26–28 aprilie 2012.

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35. **Harangus Katalin**. *Mérnöktanárképzés a szakképzés szolgálatában*, Erdélyi Magyar Szakképzésfejlesztés. A szakképzés aktuális kérdései konferencia, Kézdivásárhely, Románia, 4-5 octombrie 2019. **Meghívott előadó**
36. **Harangus Katalin**, Kátai Zoltán. *A problémamegoldó képesség vizsgálata számítógépes gondolkodást igénylő feladatok segítségével*, A feladatmegoldástól a problémamegoldásig, KAB Oktatás-nevelési és Pszichológiai Szakbizottság és Sapientia EMTE Tanárképző Intézet, Marosvásárhely, 2019. május 17 -18.
37. **Harangus Katalin**. Krisán E., *Online elérhető egészségügyi tartalmak: előnyök és hátrányok* (Online Health Contents: Advantages and Disadvantages), a IV-a Conferință de Sănătate Publică, Universitatea Sapientia Tg. Mureș, 27 septembrie 2018.
38. **Harangus Katalin**. *Számítógépes gondolkodás vizsgálata logikai feladatokkal* (Cercetarea gândirii computaționale prin exerciții logice), 3rd Carpathian Basin Educational Conference, Romania, Oradea, 22-23 June, 2018.
39. **Harangus Katalin**, Kátai Zoltán. *A szövegértési képesség színvonalának befolyásoló hatása a számítógépes gondolkodásra* (Impactul nivelului capacității de înțelegere a textului asupra gândirii algoritmice), Emberközpontú Tudomány. Alkalmazáscentrikus szemlélet az oktatásban. Kolozsvári Akadémiai Bizottság szakbizottságainak konferenciája (Conferința Academiei Maghiare de Științe, filiala din Cluj), Tg. Mureș, 24 Noiembrie 2017.
40. **Harangus Katalin**, Kovács R.-R., Sántha Á., Tatai Cs., *Az e-egészségügy mint lehetőség vs. a lakosság eszközhasználata mint korlát* (E-health ca oportunitate – obiceirile populației de utilizare a noilor medii ca obstacol), a III-a Conferință de Sănătate Publică – Tineret și Sănătate, Universitatea Sapientia Tg. Mureș, 6 aprilie 2017.
41. **Harangus Katalin**, Kátai Zoltán. *IKT eszközök és e-learning a magyar tannyelvű szak- és tanárképzésben* (E-learning și TIC în educația profesională și formarea profesorilor), Oknyomozó tudomány - Adottságok és lehetőségek a magyar tannyelvű szakképzésben (Știința investigării - Aptitudini și oportunități ale educației profesionale minoritare), Kolozsvári Akadémiai Bizottság szakbizottságainak konferenciája (Conferința Academiei Maghiare de Științe, filiala din Cluj), Tg. Mureș, 11 noiembrie 2016.
42. Kátai Zoltán, **Harangus Katalin**. *Szövegértés versus algoritmikus gondolkodás* (Înțelegere de text vs. gândire algoritmică), Oknyomozó tudomány - Adottságok és lehetőségek a magyar tannyelvű szakképzésben (Știința investigării - Aptitudini și oportunități ale educației profesionale minoritare), Kolozsvári Akadémiai Bizottság szakbizottságainak konferenciája (Conferința Academiei Maghiare de Științe, filiala din Cluj), Tg. Mureș, 11 noiembrie 2016.
43. **Harangus K.**, Kovács R. R., Sántha Á., *A Maros megyei magyarok egészséggel összefüggő életminősége* (Calitatea vieții în rândul populației maghiare din județul Mureș), NKE Népegészségügyi Képző- és Kutatóhelyek Országos Egyesületének X. Jubileumi Konferenciája (A X-a Conferință a Asociației Atelierelor de Formare și Cercetare în Sănătatea Publică, Universitatea din Debrecin, Ungaria), 31 aug – 2 sept. 2016.

44. **Harangus K.**, Kovács R.-R., Sántha Á., Tatai Cs., *Hungarostudy - a Maros megyei magyar lakosság egészségi állapota és életminősége* (Hungarostudy - Starea de sănătate și calitatea vieții a populației maghiare din județul Mureș), a II.-a Conferință de Sănătate Publică – Stil de viață și sănătate, Universitatea Sapientia Tg. Mureș, 16 aprilie 2016.
45. Tatai Cs., Ábrám Z., Kovács R.-R., Sántha Á., Lukács-Márton R., **Harangus K.**, Csibi M., *The role of health-related quality of life research in the national and international health policies*, Conferința anuală a doctoranzilor și post-doctoranzilor, UMF Tg. Mureș, 9 decembrie 2015.
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47. **Harangus K.**, Kátai Z.: *Információs és kommunikációs technológiák szerepe a közoktatásban és tanárképzésben* (Rolul tehnologiei informației și comunicațiilor în educație publică și în formare a cadrelor didactice), Kolozsvári Akadémiai Bizottság szakbizottságainak konferenciája (Conferința Academiei Maghiare de Științe, filiala din Cluj), A tudomány evolúciója: a valós és a virtuális világok (Știința evoluției: lumi reale și virtuale), Univeristatea Sapientia Tg. Mureș, 13-14 noiembrie 2015.
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52. **Harangus K.**, *Anyanyelvi kompetenciák: jelen és jövő a mérések tükrében.* (Competențele limbii materne: prezent și viitor în oglinda măsurătorilor). Kolozsvári Akadémiai Bizottság szakbizottságainak konferenciája (Conferința Academiei Maghiare de Științe, filiala din Cluj), A Magyar Tudomány Ünnepe (Festivitatea științei maghiare), Tg. Mureș, 16 noiembrie 2012.

10 ianuarie 2021
Târgu Mureș

Harangus