

## Lista articolelor publicate

Asistent universitar dr. Ana- Maria VUTAN

### **(I) Lista celor 10 lucrări relevante pentru realizările profesionale**

1. **Vutan A.-M.**, Lovasz E.-Ch., Gruescu C.-M., Sticlaru C., Sîrbu E., Jurju N.-A., Borozan I.-S., Vutan C., *Evaluation of Symmetrical Exercises in Scoliosis by Using Thermal Scanning*, MDPI Applied Sciences, 2022, 12, 721, ISSN 2076-3417 (impact factor 2020: 2.679). **Prim autor.**  
[https://www.mdpi.com/journal/applsci/special\\_issues/Advanced\\_technologies\\_assessment\\_therapy\\_rehabilitation\\_medicine](https://www.mdpi.com/journal/applsci/special_issues/Advanced_technologies_assessment_therapy_rehabilitation_medicine)  
<http://dx.doi.org/10.3390/app12020721>
2. **Vutan A.-M.**, Ivan M., Pantea C. - *Pilot study on the use of Yumeiho therapy in the treatment of low back pain* - publicată în Revista Sport and Society Interdisciplinary Journal of Physical Education and Sports Volume 22, Issue 2 (2022) p-ISSN 1582-2168, e-ISSN 2344-3693. Revista indexată EBSCO SPORTSDiscus, Academic Journals Database, Crossref, Consiliul Național pentru Cercetare Științifică din Romania (2011): B+, ULRICHSWEB, Journal Citations Impact Factor report 1.90, DOAJ, ERIH PLUS. **Prim autor**  
<https://doi.org/10.36836/2022/2/05>  
<https://www.sportsisocietate.ro/articol/590>
3. **Vutan Ana-Maria**, Pantea Corina, Motoc Andreea - **Pilot Study On The Influence Of Dynamic And Postural Reflexes In Children Diagnosed With Scoliosis**, Proceedings of ICU 2021 The 7th International Conference of Universitaria Consortium in Physical Education, Sports and Physiotherapy, Iași, 12-13 noiembrie 2021, pag 603-610, Editografica Bologna, Italia, ISBN 978-88-87729-73-3. **Prim autor**  
<http://www.edlearning.it/ebook/EY12.pdf>
4. **Vutan A.-M.**, Pantea C., *Use of Trigger Points Therapy for cervical spondylarthrosis with aggravated symptoms of Varicella-Zoster virus infection - Case Report*. publicată în Timișoara Physical Education and Rehabilitation Journal, vol 13, nr 24, pag 25-29, 2020. ISSN 2065-0574. Revistă indexată ProQuest, EBSCO, Index Copernicus, Ulrichs, J-Gate și Versita. **Prim autor**, DOI:10.2478/tperj-2020-0004  
[https://tperj.uvt.ro/wp-content/uploads/2020/07/TPERJ\\_vol\\_13\\_issue\\_24\\_art\\_4.pdf](https://tperj.uvt.ro/wp-content/uploads/2020/07/TPERJ_vol_13_issue_24_art_4.pdf)
5. **Vutan A.-M.**, Gruescu C.M., Lovasz E.C., Ciupe V., - *Method to medel the spinal column Shape*, IOP Conference Series: Materials Science and Engineering, vol 514 (1), IOP Publishing, 2019, doi:10.1088/1757-899X/514/1/012046,  
<https://iopscience.iop.org/article/10.1088/1757-899X/514/1/012046/meta>
6. Gall D.L., **Vutan A.-M.**, Niță A., Vutan C., - *Rehabilitation methods in non-displaced fractures of the proximal humerus* Timisoara Physical Education and Rehabilitation Journal, 12 (22), p 32-38, 2019, DOI: 10.2478/tperj -2019-0005,  
<https://tperj.uvt.ro/wp-content/uploads/2019/08/V12IS22A5.pdf>
7. Varga M., **Vutan A.-M.**, - *The efficiency of rehabilitation programs in the case of unoperated lumbar disc herniation*, Timisoara Physical Education and Rehabilitation Journal 12 (23), p 26-31, 2019, DOI: 10.2478/tperj -2019-0010,  
<https://tperj.uvt.ro/wp-content/uploads/2020/01/V12IS23A4B.pdf>

8. **Vutan A.-M.**, Gruescu C.M., Lovasz E.C., Ciupe V., - *Discussion on Cobb Angle variation during progressive lateral flexion of the trunk*, IOP Conference Series: Materials Science and Engineering, Vol.444 (5), IPO Publishing, 2018, doi:10.1088/1757-899X/444/5/052020, <https://iopscience.iop.org/article/10.1088/1757-899X/444/5/052020/meta>
9. Liuțe Șt-O., Inciulescu M.-I., Pantea C., **Vutan A.-M.**, - *Review study on the efficiency of the use of kinesiological tape in performance athletes* SPORT AND SOCIETY Interdisciplinary Journal of Physical Education and Sports Volume 21, Issue 2 (2021), doi.org/10.36836/UAIC/FEFS/10.18, <https://www.sportsisocietate.ro/articol/573>
10. **Vutan A.-M.**, Olariu K.P., Jurjiu N.-A., Pantea C., - *The influence of the visual analyzer on posture and balance - review type study*, Studia Universitatis Babeș-Bolyai Educatio Artis Gymnasticae vol 67 (LXVII), nr 4, 2022, pp. 217-224 Published online: 2065-9547 Published print: 1453-4223 DOI:10.24193/subbeag.67(4).50, <http://studia.ubbcluj.ro/download/pdf/1476.pdf>

## (II) Teza de doctorat

**Titlul tezei:** „Dezvoltarea unor metode de evaluare a eficienței exercițiilor de kinetoterapie specifice reabilitării scoliozelor”

**Coordonator științific:** Prof.dr.ing. Erwin-Christian Lovasz

**Domeniul / specializarea:** Inginerie mecanică

**OME:** 3977/19.04.2023

## (III) Brevete

## (IV) Cărți

## (V) Capitole de carte

1. **Vutan A.M.**, Gruescu C.M., Sticlaru C., Lovasz E-Ch., - *The use of accelerometers to track changes in Cobb angles during scoliosis rehabilitation exercises*, New Trends in Medical and Service Robotics. MESROB 2023. Mechanisms and Machine Science, vol 133. Springer, Cham. [https://doi.org/10.1007/978-3-031-32446-8\\_30](https://doi.org/10.1007/978-3-031-32446-8_30),
2. **Vutan A.M.**, Gruescu C.M., Ciupe V., Margineanu D., Lovasz E.C., - *Effectiveness of Physical Exercises in the Treatment of Scoliosis- Mathematical Approach*, New Trends in Medical and Service Robotics. Mechanisms and Machine Science, vol 65. Springer, Cham. [https://doi.org/10.1007/978-3-030-00329-6\\_4](https://doi.org/10.1007/978-3-030-00329-6_4)
3. **Vutan A.M.**, Ciupe V., Gruescu C.M., Lovasz E-Ch., - *Experimental method for dynamic evaluation of spinal column deformation exercises*, New Advances in Mechanism and Machine Science. Mechanisms and Machine Science, vol 57. Springer, Cham. [https://doi.org/10.1007/978-3-319-79111-1\\_13](https://doi.org/10.1007/978-3-319-79111-1_13)
4. Lovasz E.C, Gruescu C.M., **Vutan A.M.**, Margineanu D.T., - *Dynamic Study of an Adaptive Intelligent Cervical Brace Model Under Actuation*, Mechanism Design for Robotics. MEDER 2018. Mechanisms and Machine Science, vol 66. Springer, Cham. [https://doi.org/10.1007/978-3-030-00365-4\\_39](https://doi.org/10.1007/978-3-030-00365-4_39)

## (VI) Articole in extenso din fluxul științific internațional

1. **Vutan A.-M.**, Lovasz E.-Ch., Gruescu C.-M., Sticlaru C., Sîrbu E., Jurjiu N.-A., Borozan I.-S., Vutan C., *Evaluation of Symmetrical Exercises in Scoliosis by Using Thermal Scanning*, MDPI Applied Sciences, 2022, 12, 721, ISSN 2076-3417 (impact factor 2020: 2.679). **Prim autor.**  
[https://www.mdpi.com/journal/applsci/special\\_issues/Advanced\\_technologies\\_assessment\\_therapy\\_rehabilitation\\_medicine](https://www.mdpi.com/journal/applsci/special_issues/Advanced_technologies_assessment_therapy_rehabilitation_medicine)  
<http://dx.doi.org/10.3390/app12020721>
2. Jurjiu N.A., **Vutan A.M.**, - *Review Study on Fascial Therapy in Low Back Pain*, Proceedings of The 6th International Conference of Universitaria Consortium „FEFSTIM Physical Education, Sports and Kinesiotherapy – implications in quality of life”, Timișoara, 6-7 noiembrie 2020, Filodiritto International Editore pag. 276-272. ISBN 979-12-80225-05-4 Ultim autor. WOS: 000682773700040  
<https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000682773700040>
3. Lovasz E.C, Gruescu C.M., **Vutan A.-M.**, Margineanu D.T., - *Dynamic Study of an Adaptive Intelligent Cervical Brace Model Under Actuation*, IFToMM Symposium on Mechanism Design for Robotics, pag 327-334, Springer, Cham, 2018, [https://doi.org/10.1007/978-3-030-00365-4\\_39](https://doi.org/10.1007/978-3-030-00365-4_39)
4. **Vutan A.M.**, Gruescu C.M., Lovasz E.C., Ciupe V., *Discussion on Cobb Angle variation during progressive lateral flexion of the trunk*, IOP Conference Series: Materials Science and Engineering 444 (5), doi:10.1088/1757-899X/444/5/052020, The 8th International Conference on Advanced Concepts in Mechanical Engineering, 2018, **Prim autor** doi:10.1088/1757-899X/444/5/052020  
<https://iopscience.iop.org/article/10.1088/1757-899X/444/5/052020/meta>
5. **Vutan A.M.**, Davidescu A., Lovasz E.C., Gruescu C.M., Ciupe V., *A New Method of Assessing the Evolution of Scoliosis*, Proceedings of the 4<sup>th</sup> international conference of the Universitaria Consortium (ICU 2018), The impact of Sport and Physical Education Science on Today's Society, pag. 395-400, 2018, ISSN 978-88-87729-54-2, **Prim autor.** WOS: 000474444100064  
[https://www.researchgate.net/profile/Oana-Rusu-2/publication/339942269\\_Where\\_and\\_Who\\_are\\_We\\_and\\_Could\\_Be\\_Case\\_Study\\_-\\_Romanian\\_Sports\\_Tourism/links/5ea66bfa92851c1a90734197/Where-and-Who-are-We-and-Could-Be-Case-Study-Romanian-Sports-Tourism.pdf#page=395](https://www.researchgate.net/profile/Oana-Rusu-2/publication/339942269_Where_and_Who_are_We_and_Could_Be_Case_Study_-_Romanian_Sports_Tourism/links/5ea66bfa92851c1a90734197/Where-and-Who-are-We-and-Could-Be-Case-Study-Romanian-Sports-Tourism.pdf#page=395)
6. Liuțe Șt.-O., **Vutan A.-M.**, - *Comparative Study Regarding Very Early Mobilization and Early Mobilization in Patients after Stroke*, Proceedings of The 6th International Conference of Universitaria Consortium „FEFSTIM Physical Education, Sports and Kinesiotherapy – implications in quality of life”, Timișoara, 6-7 noiembrie 2020, Filodiritto International Editore pag. 155-160. ISBN 979-12-80225-05-4 Ultim autor. WOS:000682773700024  
<https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000682773700024>
7. **Vutan A.-M.**, Gruescu C.M., Lovasz E.C., Ciupe V., *Method to medel the spinal column Shape*, IOP Conference Series: Materials Science and Engineering, vol 514 (1), IOP Publishing, 2019, doi:10.1088/1757-899X/514/1/012046,  
<https://iopscience.iop.org/article/10.1088/1757-899X/514/1/012046/meta>

## (VII) Articole in extenso apărute în lucrări ale conferințelor internaționale de specialitate

1. Nemes D.I.A., Dragoi M., Vutan C., **Munteanu A.-M.**, Țeghiiu A. , - *Physical therapy in Alzheimer`s disease- Improving memory and attention*, The 2nd World Congress of the International Society of Physical and Rehabilitation Medicine – ISPRM, 18-23 mai 2003 Praga, Cehia
2. **Vutan A.-M.**, Ciupe V., Gruescu C.M., Lovasz E-Ch., - *Experimental method for dynamic evaluation of spinal column deformation exercises*, The 12th IFToMM International Symposium on Science of Mechanisms and Machines (SYROM), noiembrie 2017, Iași, România New Advances in Mechanism and Machine Science, Mechanisms and Machine Science 57, pag 137-146, [https://doi.org/10.1007/978-3-319-79111-1\\_13](https://doi.org/10.1007/978-3-319-79111-1_13), ISBN 978-3-319-79110-4.
3. **Vutan A.-M.**, Gruescu C.M., Lovasz E.C., Ciupe V., - *Discussion on Cobb Angle variation during progressive lateral flexion of the trunk*, The 8th International Conference on Advanced Concepts in Mechanical Engineering (ACME), 7-8 iunie 2018, Iași, România IOP Conference Series: Materials Science and Engineering, Vol.444 (5), IPO Publishing, 2018, doi:10.1088/1757-899X/444/5/052020.
4. **A.-M. Vutan**, A.Davidescu, E-Ch. Lovasz, C-M. Gruescu, V.Ciupe, - *A New Method of Assessing of Scoliosis*, Proceedings Of The 4th International Conference Of The Universitaria Consortium (ICU): The Impact Of Sport And Physical Education Science On Today's Society, 23-24 noiembrie 2018, Iași, România
5. Lovasz E.C, Gruescu C.M., **Vutan A.-M.**, Margineanu D.T., - *Dynamic Study of an Adaptive Intelligent Cervical Brace Model Under Actuation*, 4th IFToMM Symposium on Mechanism Design for Robotics (MEDER), 11-13 septembrie 2018, Udine, Italia
6. **Vutan A.-M.**, Gruescu C.M., Ciupe V., Margineanu D., Lovasz E.C., - *Effectiveness of Physical Exercises in the Treatment of Scoliosis- Mathematical Approach*, 6th International Workshop on Medical and Service Robots (MESROB), 4-6 iulie 2018, Cassino, Italia
7. **Vutan A.-M.**, Gruescu C.M., Lovasz E.C., Ciupe V., *Method to medel the spinal column Shape*, Product Design, Robotics, Advanced Mechanical and Mechatronic Systems and Innovation Conference (PRASIC) 8–9 November 2018, Brasov, Romania
8. Liuțe Șt.-O., **Vutan A.-M.**, - *Comparative Study Regarding Very Early Mobilization and Early Mobilization in Patients After Stoke*, The 6<sup>th</sup> International Conference of Universitaria Consortium "FEFSTIM": Physical Education, Sports and Kinesiotherapy- implication in quality of life, 6-7 noiembrie, 2020, Timișoara, România
9. Jurjiu N.-A., **Vutan A.-M.**, - *Review Study on Fascial Therapy in Low Back pain*, The 6<sup>th</sup> International Conference of Universitaria Consortium "FEFSTIM": Physical Education, Sports and Kinesiotherapy- implication in quality of life, 6-7 Noiembrie 2020, Timișoara, România
10. **Vutan Ana-Maria**, Pantea Corina, Motoc Andreea - **Pilot Study On The Influence Of Dynamic And Postural Reflexes In Children Diagnosed With Scoliosis**, Proceedings of ICU 2021 The 7th International Conference of Universitaria Consortium in Physical Education, Sports and Physiotherapy, 12-13 noiembrie 2021, Iași România
11. **Vutan A.-M.**, Gruescu C.M., Sticlaru C., Lovasz E-Ch., *The use of accelerometers to track changes in Cobb angles during scoliosis rehabilitation exercises*, The 8th International Workshop on New Trends in Medical and Service Robots (MESROB), 7-10 iunie 2023, Craiova, România

## (VIII) Alte articole

### Articole publicate în reviste indexate BDI

1. **Vutan A.-M.**, Lovasz E.-Ch., Amarandei M., Ciupe V., *The Methods used for the diagnosis and evaluation of scoliosis*, Publicată în Timișoara Physical Education and Rehabilitation Journal, vol 9, nr 17, pag 36-41, 2017, ISSN 2065-0574. Revistă indexată ProQuest, EBSCO, Index Copernicus , Ulrichs, J-Gate și Versita. **Prim autor**, DOI: 10.1515/tperj-2016-0013, <https://tperj.uvt.ro/wp-content/uploads/2018/11/V9IS17A5.pdf>
2. **Vutan A.-M.**, *Physical Therapy management in knee ankilosis- case study*, Publicată în Timișoara Physical Education and Rehabilitation Journal, vol.10. nr. 19, pag 15-18, 2017, Revistă indexată ProQuest, EBSCO, Index Copernicus , Ulrichs, J-Gate și Versita. **Prim autor**, DOI:10.1515/tperj-2017-0010, <https://tperj.uvt.ro/wp-content/uploads/2019/01/BV10IS19A3.pdf>
3. Gall D.L., **Vutan A.-M.**, Niță A., Vutan C., *Rehabilitation methods in non-displaced fractures of the proximal humerus*, Publicată în Timișoara Physical Education and Rehabilitation Journal, vol 12, nr 22, pag. 32-38, 2019, Revistă indexată ProQuest, EBSCO, Index Copernicus , Ulrichs, J-Gate și Versita. **Autor corespondent**, DOI:10.2478/tperj-2019-0005 <https://tperj.uvt.ro/wp-content/uploads/2019/08/V12IS22A5.pdf>
4. Varga M., **Vutan A.-M.**, *The efficiency of rehabilitation programs in the case of unoperated lumbar disc herniation*, Publicată în Timișoara Physical Education and Rehabilitation Journal, vol.12nr. 23, pag 26-31. 2020, DOI:10.2478/tperj-2019-0010 **Ultim autor** <https://tperj.uvt.ro/wp-content/uploads/2020/01/V12IS23A4B.pdf>
5. **Vutan A.-M.**, Pantea C., *Use of Trigger Points Therapy for cervical spondylarthrosis with aggravated symptoms of Varicella-Zoster virus infection - Case Report*. publicată în Timișoara Physical Education and Rehabilitation Journal, vol 13, nr 24, pag 25-29, 2020. ISSN 2065-0574. Revistă indexată ProQuest, EBSCO, Index Copernicus , Ulrichs, J-Gate și Versita. **Prim autor**, DOI:10.2478/tperj-2020-0004 [https://tperj.uvt.ro/wp-content/uploads/2020/07/TPERJ\\_vol\\_13\\_issue\\_24\\_art\\_4.pdf](https://tperj.uvt.ro/wp-content/uploads/2020/07/TPERJ_vol_13_issue_24_art_4.pdf)
6. Liute Șt.-O., Inciulescu M, Pantea C.\*, **Vutan A.-M.**, - *Review study on the efficiency of the use of kinesiologictape in performance athletes* – publicată în Revista Sport and Society Interdisciplinary Journal of Physical Education and SportsVolume 21, Issue 2 (2021), p-ISSN 1582-2168, e-ISSN 2344-3693. Revista indexată EBSCO SPORTSDiscus, Academic Journals Database, Crossref, Consiliul Național pentru Cercetare Științifică din Romania (2011): B+, ULRICHSWEB, Journal Citations Impact Factor report 1.90, DOAJ, ERIH PLUS, Index Copernicus. **Ultim autor** <https://doi.org/10.36836/2021/2/36>  
<https://www.sportsisocietate.ro/articol/573>
7. Jurjiu N.-A, Avram C, **Vutan A.-M.**, Glazer C., *A systematic review of integrated machine learning in posture recognition*, Timisoara Physical Education and Rehabilitation Journal, vol.14 nr.27, pag 16-20, 2021, DOI:10.2478/tperj-2021-0009 [https://tperj.uvt.ro/wp-content/uploads/2021/12/TPERJ\\_vol\\_14\\_issue\\_27\\_art\\_2.pdf](https://tperj.uvt.ro/wp-content/uploads/2021/12/TPERJ_vol_14_issue_27_art_2.pdf)
8. Vutan C., Totorean A., Pătrașcu J.-M., **Vutan A.-M.**, Oravițan M., *Systematic literatire review on the use of transcutaneous electrical nerve stimulation in the early recovery stage after total hip aethroplasty*, Timișoara Physical Education and Rehabilitation Journal, vol\_15\_issue\_28, pag 31-37, 2022, DOI 10.2478/tperj-2022-0004, [https://tperj.uvt.ro/wp-content/uploads/2022/07/TPERJ\\_art\\_4.pdf](https://tperj.uvt.ro/wp-content/uploads/2022/07/TPERJ_art_4.pdf)

9. **Vutan A.-M.**, Ivan M., Pantea C. - *Pilot study on the use of Yumeiho therapy in the treatment of low back pain* - publicată în Revista Sport and Society Interdisciplinary Journal of Physical Education and Sports Volume 22, Issue 2 (2022) p-ISSN 1582-2168, e-ISSN 2344-3693. Revista indexată EBSCO SPORTSDiscus, Academic Journals Database, Crossref, Consiliul Național pentru Cercetare Științifică din România (2011): B+, ULRICHSWEB, Journal Citations Impact Factor report 1.90, DOAJ, ERIH PLUS. **Prim autor**  
<https://doi.org/10.36836/2022/2/05>  
<https://www.sportsisocietate.ro/articol/590>
10. **Vutan A.-M.**, Olariu K.-P., Jurjiu N.-A., Pantea C., - *The influence of the visual analyzer on posture and balance - review type study* - publicat în Studia Universitatis Babeș-Bolyai Educatio Artis Gymnasticae vol 67 (LXVII), nr 4, 2022, pp. 217-224. Published online: 2065-9547 Published print: 1453-4223, DOI:10.24193/subbeag.67(4).50. **Prim autor**  
<http://studia.ubbcluj.ro/download/pdf/1476.pdf>

#### **Articole publicate în alte reviste sau volume ale unor manifestări științifice naționale și internaționale**

1. **Munteanu A.-M.**, Țeghuiu A., - *Comunicarea nonverbală – componentă a procesului de recuperare* – Analele UVT, seria EFS, nr 3, pag 369-381, mai 2001;
2. Nemes I.D.A., Dragoi M., Mircea I., Totorean A., Ghita A., Vrabie M., Gogulescu A., Vutan C., **Munteanu A.-M.**, - *Tratamentul medical al pacienților tineri și de vârstă medie cu fibromialgie primara* – Revista de Recuperare, Medicina Fizica si Balneologie , nr 1-2/2002, pag.21-22;
3. Țeghuiu A., **Vutan A.-M.**, - *Utilizarea mingii Bobath/klein-vogelbach în recuperarea scoliozei*, Revista Romana de Kinetoterapie, nr,17/2006, pag.80;

#### **Rezumate publicate în volume ale unor manifestări științifice naționale și internaționale**

1. Nemes D. I. A., Dragoi M., Vutan C., **Munteanu A.-M.**, Teghuiu A., - *The importance of daily program made in scoliosis*, prezentare orala la The 2nd Congress of the International Society of Physical and Rehabilitation Medicine – ISPRM, mai 2003, Praga, Cehia, - Rezumatul publicat in Abstracts of the 2nd Congress of ISPRM, pag 99;
2. Nemes D.I.A., Dragoi M., Vutan C., **Munteanu A.-M.**, Țeghuiu A. - *Physical therapy in Alzheimer`s disease- Improving memory and attention*, posters section la The 2nd Congress of the International Society of Physical and Rehabilitation Medicine – ISPRM, - mai 2003, Praga, Cehia, Rezumatul publicat in Abstracts of the 2nd Congress of ISPRM;
3. Dragoi M., Totorean A., Ghita A., Gogulescu A., **Vutan A.-M** - *Terapia fizicala in boala Alzheimer – cum putem imbunatati memoria si atentia* - D.I.A. - Rezumate, Revista de Recuperare, Medicina Fizica si Balneologie, nr 2-3/2003, pag.20;
4. **Vutan A.-M.** - *Utilizarea tapping-ului in recuperarea piciorului stramb congenital* – prezentare de caz, - Rezumatele lucrarilor celui de-al II-lea Congres Balcanic de Kinetoterapie, Oradea Baile Felix, mai 2006, pag. 47;
5. Teghuiu A., **Vutan A.-M.**, - *Utilizarea mingii Bobath/Klein-Vogelbach in recuperarea scoliozei*, - Rezumatele lucrarilor celui de-al II-lea Ccongres Balcanic de Kinetoterapie, Oradea Baile Felix, mai 2006, pag. 30;