

INFORMAȚII PERSONALE

Erwin-Christian Lovasz


Sexul masculin | Data nașterii | Naționalitatea română

EXPERIENȚA PROFESIONALĂ

01.04.1991-prezent

preparator, asistent, șef de lucrări, conferențiar, profesor

 Universitatea Politehnica Timișoara, Facultatea de Mecanică, Departamentul de Mecatronică, Bv. Mihai Viteazu nr.1, RO-300222, Timișoara; <http://www.upt.ro>

- activitate didactică
- activitate de cercetare științifică
- activitate managerială (director de departament din 2008)

01.09.1990-01.04.1991

 Tipul sau sectorul de activitate **educație, cercetare**
inginer

activitate de cercetare – proiectare în domeniul construcției aparatelor optice

Intreprinderea Optica din Timișoara

 Tipul sau sectorul de activitate **cercetare – proiectare în domeniul mecanicii fine**

EDUCAȚIE ȘI FORMARE

20.01.2016

Certificat de abilitare

nivelul 8 ISCED

Universitatea Politehnica Timișoara, Romania

 01.02.1992- 05.06.1998
(27.02.1998)

- Inginerie mecanică, mecatronică și robotică
- Diploma Doktoringenieur / Diploma de Doctor Inginer

nivelul 7 ISCED

- Teoria mecanismelor și Mecanică fină
Technische Universität Dresden și
- Universitatea „Politehnica” din Timișoara (doctorat în cotutelă)

15.09.1985-15.07.1990

Inginer, specializarea Mecanică fină/ Diploma de Inginer

Aparate de măsură, Metrologie, Aparate optice, Aparate biomedicale, Tehnologii de mecanică fină

Institutul Politehnic „Traian Vuia” Timișoara (actual Universitatea Politehnica Timișoara)

nivelul 6 ISCED

15.09.1981-15.09.1985

Electromecanic / Diploma de Bacalaureat

Electrotehnică

Liceul Agroindustrial Buziaș, Secția Electrotehnică

nivelul 5 ISCED

COMPETENTE PERSONALE

Limba(i) maternă(e)

Germană și maghiară

Alte limbi străine cunoscute

Limba germană

INTELEGERE				VORBIRE				SCRIERE	
Ascultare		Citire		Participare la conversație		Discurs oral			
C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat
C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat

Limba engleză	A1	Utilizator elementar	A1	Utilizator elementar	A1	Utilizator elementar	A1	Utilizator elementar	A1	Utilizator elementar
Limba maghiară	C2	Utilizator experimentat	A1	Utilizator elementar	C1	Utilizator experimentat	C1	Utilizator experimentat	A2	Utilizator elementar

Niveluri: A1/A2: Utilizator elementar - B1/B2: Utilizator independent - C1/C2: Utilizator experimentat
 Cadrul european comun de referință pentru limbi străine

Competențe și abilități sociale	- spirit de echipă (conducere sau colaborare la finalizarea unor programe de cercetare) - capacitate de adaptare la medii multiculturale (participare cu rezultate pozitive la manifestări științifice, stagii bursiere, schimburi profesionale organizate în diverse țări europene) - capacitate bună de comunicare (context profesional – activitate didactică și de cercetare)									
Competențe și aptitudini organizatorice	06.03.2008-prezent Directorul Departamentului de Mecatronică 30.08.2005-prezent Secretarul științific al organizației științifice naționale ARoTMM Asociația Română de Știința Mecanismelor și Mașinilor 01.01.2005-31.12.2011 Membru în Comitetul permanent IFToMM – Constitution 01.01.2012-31.12.2017 Președintele Comitetului Tehnic IFToMM – Linkages and Mechanical Controls 01.01.2016-31.12.2019 Secretarul Comisiei IFToMM - Awards and Honor 01.02.2020-prezent Secretarul General al IFToMM (International Federation of the Promotion of Mechanism and Machine Science)									
Activitate științifică și de cercetare	-185 lucrări științifice (49 internaționale, 84 indexate Scopus, IEEE, și Springer, 48 indexate ISI Proceedings, 8 indexate ISI Journal) - 27 contracte de cercetare (7 în calitate de director și responsabil de partener) - 16 cărți publicate (9 în calitate de editor) - editor asociat la revistele „International Journal of Advanced Robotics Systems” și „Mechanics & Industry”									
Vizite și schimburi de experiență internaționale	Universitatea Tehnică Dresden, Germania, Universitatea Politehnică din Milano, Italia, Universitatea Tehnică din Liberec, Cehia, Universitatea Tehnică Chemnitz, Germania, Universitatea din Praga, Cehia, Universitatea Agrară din Gödöllő, Ungaria, Universitatea din Oulu, Finlanda, Universitatea din Nis, Serbia, Universitatea din Bonn, Germania, Universitatea Tehnică Braunschweig, Germania, Universitatea Tehnică din Ilmenau, Germania, Universitatea RWTH Aachen, Germania, Universitatea Tehnică din Tianjin, China, Universitatea Franche-Comté LMARC Besancon, Franța, Universitatea de științe aplicate Osnabrück, Germania, Universitatea de științe aplicate HAMK, Finlanda, Universitatea din Guanajuato, Mexic, Institut Français de Mécanique Avancée IFMA, Franța, University of Basque Country Bilbao, Spania, Tokyo Institute of Technology, Japonia, University of Cassino, Italia, National Taiwan University of Technology and Science, Taiwan, Izmir Institute of technology, Turcia									
Burse de studii și cercetare pre/post doctorale	1995 Bursă DAAD de perfecționare a cunoștințelor de lb. germană, Herder Institut Leipzig, (7 săpt.) 1996-1997 Bursă de cercetare DAAD, Technische Universität Dresden, (6 luni) 1999 Bursă Pro Renovanda Cultura, Gödöllői Szent István Egyetem, (4 săpt.) 2001-2002 Bursă post-doctorală Humboldt. Programul Roman Herzog, Technische Universität Dresden 2004-2011 Burse Erasmus, Technische Universität Dresden, (anual 2-4 săpt.) 2014 Bursă NTUST, National Taiwan University of Technology and Science, (1 săpt.) 2015, 2018 Burse Socrates-Erasmus, Università degli Studi di Cassino e del Lazio Meridionale, (1 săpt.)									
Competențe dobândite la locul de muncă	Scrieți competențele dobândite la locul de muncă și care nu au fost menționate anterior. Specificați contextul în care au fost acestea dobândite. De exemplu: • o bună cunoaștere a proceselor de control al calității (în prezent fiind responsabil cu auditul calității)									
Competență digitală	AUTOEVALUARE									
	Procesarea informației		Comunicare		Creare de conținut		Securitate		Rezolvarea de probleme	
	Utilizator experimentat		Utilizator experimentat		Utilizator experimentat		Utilizator experimentat		Utilizator experimentat	
	Niveluri: Utilizator elementar - Utilizator independent - Utilizator experimentat Competențele digitale - Grilă de auto-evaluare									
Alte competențe informatice	• Pachetul MS Office, VB, Auto CAD, MathCAD • Aplicații de editare foto (Irfan View, Scantailor, Abby Fine Reader)									
Permis de conducere	Categorია B									

ANEXE

Cărți publicate

1. Erwin-Chr. Lovasz, Burkhard Corves (Editors) - Mechanisms, Transmissions and Applications, Series: Mechanisms and Machine Science, Vol. 3, Springer International Publishing, 2011, 292 pages, ISBN 978-94-007-2726-7.
2. Grigore Gogu, Inocentiu Maniu, Erwin-Chr. Lovasz, Jean-Christophe Fauroux, Valentin Ciupe (Editors) - Mechanisms, Mechanical Transmissions and Robotics, Series: Applied Mechanics and Materials, Trans Tech Publications, 2012, 624 pages, ISBN 978-3-03785-395-5.
3. Victor Petuya, Charles Pinto, Erwin-Chr. Lovasz (Editors) - New Advances in Mechanisms, Transmissions and Applications, Proceedings of the Second Conference MeTrApp 2013, Series: Mechanisms and Machine Science, Vol. 17, Springer International Publishing, 2014, 419 pages, ISBN 978-94-007-7484-1.
4. Erwin-Chr. Lovasz, Gondji Kondaiah Ananthasuresh, Burkhard Corves, Victor Petuya (Editors) - Microactuators and Micromechanisms, Proceedings of MAMM 2014, Series: Mechanisms and Machine Science, Vol. 30, Springer International Publishing, 2014, 200 pages, ISBN 978-3-319-15861-7.
5. Burkhard Corves, Erwin-Chr. Lovasz, Mathias Hüsing (Editors) - Mechanisms, Transmissions and Applications, Proceedings of the Third MeTrApp Conference 2015, Series: Mechanisms and Machine Science, Vol.31, Springer International Publishing, 2015, 352 pages, ISBN 978-3-319-17066-4.
6. Lena Zentner, Burkhard Corves, Brian Jensen, Erwin-Chr. Lovasz (Editors) - Microactuators and Micromechanisms, Proceedings of MAMM 2016, Series: Mechanisms and Machine Science, Vol. 45, Springer International Publishing, 2017, 261 pages, ISBN 978-3-319-45386-6
7. Burkhard Corves, Erwin-Chr. Lovasz, Mathias Hüsing, Inocentiu Maniu, Corina Gruescu (Editors) - New Advance in Mechanisms, Mechanical Transmissions and Robotics, Proceedings of the Joint International Conference of the XII International Conference on Mechanisms and Mechanical Transmissions (MTM) and the XXIII International Conference on Robotics (Robotics'16), 2017, Series: Mechanisms and Machine Science, Vol.46, Springer International Publishing, 2017, 497 pages, ISBN 978-3-319-45449-8.
8. Mehmet Ismet Can Dede, Mehmet Itik, Lovasz Erwin-Christian., Kiper Gökan (Editors) - Mechanisms, Transmissions and Applications, Proceedings of the Fourth MeTrApp Conference 2017, Series: Mechanisms and Machine Science, Vol.52, Springer International Publishing, 2018, 288 pages, ISBN 978-3-319-60701-6.
9. Ioan Doroftei, Cezar Oprisan, Doina Pisla, Erwin-Chr. Lovasz (Editors) - New Advances in Mechanism and Machine Science, 2018, Proceedings of The 12th IFToMM International Symposium on Science of Mechanisms and Machines (SYROM 2017), Series: Mechanisms and Machine Science, Vol.57, Springer International Publishing, 2018, 534 pages, ISBN 978-3-319-79110-4.
10. Erwin-Chr. Lovasz, Corneliu Rădulescu - Roboți de prestări de servicii (Service Robotics), Editura Politehnica, vol.1, 2015, 255 pages, ISBN 978-606-35-0033-6.
11. Erwin-Chr. Lovasz, Corneliu Rădulescu - Robotică avansată (Advanced Robotics), Editura Politehnica, 2013, 255 pages, ISBN 978-973-625-920-32011.
12. Erwin-Chr. Lovasz - Mecanisme de tip centroidal (Centroid Mechanisms), Editura Politehnica, 2009, 320 pages ISBN 978-973-625-920-3.
13. Erwin-Chr. Lovasz - Getriebelehre II Kurvengetriebe, Editura Politehnica, 2008, 128 pages, ISBN 978-973-625-715-5.
14. Erwin-Chr. Lovasz, Cărăbaș, Iosif - Principii de sinteză a mecanismelor cu roți dințate și came (Synthesis Principle of Gear and Cam Mechanisms), Editura Politehnica, Timișoara, 2004, II Ed. 2006, 198 pages, ISBN 973-625-157-8.
15. Lovasz, Erwin-Chr. - Mechanismen in Verarbeitungsmaschinen – Studienbrief, TU Dresden Verlag, 2004, 168 pages.
16. Ioan Nicolae Văcărescu, Valeria Văcărescu, Erwin-Christian Lovasz, Marius Mateaș - Aparatură Biomedicală (Biomedical Devices), Editura Mirton, 2001, 119 pages, ISBN 973-585-456-2 119.

Lista de lucrări și capitole publicate în reviste (extras)

1. Lovasz, E.-C., Modler, K.-H., Pop, C., Pop, F., Mărgineanu D.T., Maniu, I.: Type Synthesis and Analysis of Geared Linkages with Linear Actuation, *Mechanika*, 24(1), (2018), 108-114, IF=0,529 (Q4-2018)
2. Lovasz, E.-C., Mărgineanu, D.T., Ciupe, V., Maniu, I., Gruescu, C.M., Zabava, E.S., Stan, S.D.: Design and control solutions for haptic elbow exoskeleton module used in space telerobotics, *Mechanism and Machine Theory*, 107, (2017), 384-398, IP=1,689 (Q1-2017)
3. Modler, N., Winkler, A., Filippatos, A., Lovasz, E.-C., Mărgineanu, D.-T.: Simulation and experimental investigation of active lightweight compliant mechanisms with integrated piezoceramic actuators, *Smart Materials and Structures*, 25(8), (2016), 085047, IF=2,769 (Q1-2016)
4. Lovasz E.-C., Modler K.-H., Neumann R., Gruescu C.M., Perju D., Ciupe V., Maniu I.: Novel design solutions for fishing reel mechanisms, *Chinese Journal of Mechanical Engineering* 28 (4), 2015, 726-736, IF=0,531 (Q4-2015)
5. Hanke, U., Lovasz, E.-C., Zichner, M., Modler, N., Comsa, A., Modler, K.-H.: Synthesis of PR-/RP-chain-based compliant mechanisms - design of applications exploiting fibre reinforced material characteristics, *Mechanical Sciences*, 6(2), (2015), 155-161, IF=1.200 (Q2-2015).

6. Gruescu, C.M., Garaiman, A., Lovasz, E.-C.: Modeling of human spinal column and simulation of spinal deformities, *Mechanika*, 3, (2015), 214-219, IF=0,277 (Q4-2015)
7. Modler K.-H., Lovasz E.-C., Bähr G., Neumann R., Perju D., Perner M., Margineanu D. - General method for the synthesis of geared linkages with non-circular gears, *Mechanism and Machine Theory*, 44, (2009), 726-738, IF=1,407 (Q1-2009).
7. Lovasz A.E., Lovasz E.-C., Gruescu C.M.: Digital Library of Mechanisms, *Procedia - Social and Behavioral Sciences*, 163, (2014), 85-91, ISSN 1877-0428
8. Nemes D.I., Dragoi M., Poenaru D.V., Cretu O., Vermesan H., Prejbeanu R., Vermesan D., Popa D., Dragoi R., Suci O., Surducian D., Nemes C., Lovasz E.-C.: Complex assessments and therapies of the secondary scoliosis in inflammatory rheumatic diseases, *Arthritis and Rheumatism*, 58, (2008), 736, IF=7,332 (Q1-2009).
9. Lovasz E.-C., Pop C., Pop F., Dolga V.: Novel solution for leg motion with 5 link belt mechanism, *International Journal of Advanced Mechanics and Engineering*, 19, (2014), 699-708, ISSN 2014-0048
10. Lovasz E.-C., Ciupe V., Gruescu C.M., Margineanu D.: Study Regarding the Actuation Choice for the Elbow Module of an Exoskeleton Arm, *ROBOTICA SI MANAGEMENT International Journal*, 18, (2013), 29-32, ISSN 1453 2069
11. Modler N, Comsa A, Maniu I, Lovasz E.-C., Ciupe V. - Dedicated Gripper for Books Handling in a Library, The 11th IFToMM International Symposium on Science of Mechanisms and Machines, Springer Publisher, Series: Mechanisms and Machine Science, vol. 18, (2013), 515-521, ISBN 978-3-319-01844-7.
12. Mărgineanu D, Lovasz E.-C., Ciupe V, Ciurdariu L. - Kinematic and Dynamic Modeling and Simulation of an Intelligent Adaptive CTLSO Brace, The 11th IFToMM International Symposium on Science of Mechanisms and Machines, Springer Publisher, Series: Mechanisms and Machine Science, 18, (2013), 159-167 ISBN 978-3-319-01844-7.
13. Ciupe V, Lovasz E.-C., Reessing M, Henkel V, Gruescu C.M., Zabava E.S. - Interactive Animation Production by Means of Advanced Image Processing, The 11th IFToMM International Symposium on Science of Mechanisms and Machines, Springer Publisher, Series: Mechanisms and Machine Science, 18, (2013), 329-337, ISBN 978-3-319-01844-7.
14. Lovasz E.-C., Perju D., Modler K.-H., Modler N., Gruescu C. M., Maniu I., Comşa A. - On the Structural Analysis of the Mechanisms with Elastic Connections, The 11th IFToMM International Symposium on Science of Mechanisms and Machines, Springer Publisher, Series: Mechanisms and Machine Science, 18, (2013), 59-67, ISBN 978-3-319-01844-7.
15. Ehlig J, Hanke U, Lovasz E.-C., Zichner M, Modler K-H - Geometrical Synthesis Approach for Compliant Mechanisms—Design of Applications Exploiting Fibre Reinforced Material Characteristics, *New Advances in Mechanisms, Transmissions and Applications*, Springer Publisher, Series: Mechanisms and Machine Science, 17, (2013), 215-223, ISBN 978-94-007-7874-1.
16. Lovasz E.-C., Ciupe V, Modler K-H, Gruescu C.M., Hanke U, Maniu I, Mărgineanu D. - Experimental Design and Control Approach of an Active Knee Prosthesis with Geared Linkage, *New Advances in Mechanisms, Transmissions and Applications*, Springer Publisher, Series: Mechanisms and Machine Science, 17, (2013), 149-156, ISBN 978-94-007-7874-1.
17. Lovasz E.-C., Gruescu C.M., Garaiman A., Carabas I., Bodea R. - Scanning System Integrated Within Biometric Measurements, *Proceedings of the 1st Exploratory Workshop New Trends in Medical and Service Robots*, Springer Publisher, Series: Mechanisms and Machine Science, 16, (2013), 131-144, ISBN 978-3-319-01591-0.
18. Comsa A., Maniu I., Modler N., Lovasz E.-C., Ciupe V., Automated Book Manipulator in Libraries, *Proceedings of the 1st Exploratory Workshop New Trends in Medical and Service Robots*, Springer Publisher, Series: Mechanisms and Machine Science, 16, (2013), 75-85 ISBN 978-3-319-01591-0.
19. Garaiman A., Gruescu C.M., Lovasz E.-C., Amarandei M., Patrascu M., Jenel C., Andor B. - Discussions On the Procedure and Results of an Evaluation Health Program Regarding Spinal Deformity in School-Aged Children, *E-Health And Bioengineering Conference, EHB- 2013 Iasi*, (2013), ISBN 978-1-4799-2373-1.
20. Lovasz E.-C., Perju D., Gruescu C.M., Modler K.-H., Carabas I., Zabava E.S. - Numerical Method for Determination of Base Circle Radius of Cam Mechanisms with Oscillating Flat-Face Follower, *Advances in Mechanisms Design*, Springer Publisher, Series: Mechanisms and Machine Science, 8, (2012), 143-149, ISBN 978-94-007-5124-9.
21. Lovasz E.-C., Gruescu C.M., Ciupe V., Carabas I., Margineanu D., Maniu I., Dehelean N. - Advanced Digitization Techniques in Retrieval of Mechanism and Machine Science Resources, *Advances in Mechanisms Design*, Springer Publisher, Series: Mechanisms and Machine Science, 8, (2012), 35-41, ISBN 978-94-007-5124-9.
22. Vacarescu V., Lovasz E.-C., Buciuman C. F. - Research on Multi-Directional Pose Accuracy Variation in a Welding Robot, *Advances in Mechanisms Design*, Springer Publisher, Series: Mechanisms and Machine Science, 8, (2012), 645-653, ISBN 978-94-007-5124-9.
23. Lovasz E.-C., Perju D., Modler K.-H., Gruescu C.M., Maniu I., Zabava E.-S. - Numerical Iterative Method for Computing the Base Circle Radius of Cam Mechanisms with Translating Flat-Face Follower, *New Trends in Mechanism and Machine Science Theory and Applications in Engineering*, Springer Publisher, Series: Mechanisms and Machine Science, 7, (2012), 237-244, ISBN 978-94-007-4901-6.
24. Lovasz E.-C., Perju D., Maniu I., Radulescu C., Ciupe V. - Francisc Viliam Kovacs - Leader in the Development of Mechanisms and Robotics in Romania, *Explorations in the History of Machines and Mechanisms*, Springer Publisher, Series: History of Mechanism and Machine Science, 15, (2012), 171-184, ISBN: 979-94-007-4131-7.
25. Lovasz E.-C., Perju D., Corves B., Brix T., Modler K.-H., Maniu I., Gruescu C.M., Lovasz A., Ciupe V. - Multilingual Illustrated μ -thesaurus in Mechanisms Science, *Mechanisms, Transmissions and Applications*, Springer Publisher, Series: Mechanisms and Machine Science, 3, (2011), 47-58, ISBN 978-94-007-2726-7.
26. Modler N., Modler K.-H., Hufenbach W., Margineanu D., Lovasz E.-C., Perju D., Ianosi Ev.; RBS Simulation of Integrated Piezo-Ceramic Actuation for Textile Reinforced Composite Compliant Mechanisms, *Mechanisms, Transmissions and Applications*, Springer Publisher, Series: Mechanisms and Machine Science, 3, (2011), 169-184, ISBN 978-94-007-2726-7.
27. Dehelean N. M., Dehelean L. M., Lovasz E.-C., Perju D. - A Theoretical Improvement of a Stirling Engine PV Diagram, *New Trends in Mechanism Science*, Springer Publisher, Series: Mechanisms and Machine Science, 5, (2010), 613-623, ISBN 978-90-481-9688-3.
28. N. Modler, K.-H. Modler, W. Hufenbach, M. Gude, J. Jaschinskei, M. Zichner, E.-C. Lovasz, D. Margineanu, D. Perju - Cyclic Test of Textile-Reinforced Composites in Compliant Hinge, *New Trends in Mechanism Science*, Springer Publisher, Series: Mechanisms and Machine Science, 5, (2010), 173-180, ISBN 978-90-481-9688-3.

29. Perju D., Lovasz E.-C., Modler K.-H., Dehelean L.M., Moldovan E.C., Margineanu D. - Size Minimisation of the Cam Mechanisms with Translating Roll Follower, *New Trends in Mechanism Science*, Springer Publisher, Series: Mechanisms and Machine Science, 5, (2010), 245-252, ISBN 978-90-481-9688-3.
30. Lovasz E.-C., Perju D., Dehelean N., Dehelean L.M., Maniu I., Moldovan C. - Self-Balanced Conco-Balancer Manipulator with Band Mechanism, *Solid State Phenomena*, 166-167, (2010), 259-265, ISSN 1012-0394.
31. Dehelean N., Ciupe V., Lovasz E.-C. - A Digital Model of a Dwell Mechanism for Alpha-Stirling Engine, *Proceedings of the 10th IFToMM International Symposium on Science of Mechanisms and Machines, SYROM'09*, Springer Publisher, (2009), 521-528, ISBN 978-90-481-3521-9.
32. Modler K.-H., Song, L., Hanke U., Lovasz E.-C. - Getriebetechnische Lösungen für stabilisierende Formgebungsprozesse, *Bewegungstechnik, VDI Berichte 2050*, (2008), 187-194.
33. Ianoși E., Lovasz E.-C., Văcărescu V., Mateaș M. - Proposal for force limitation system applied in the human column measurement, *Acta Technica Napocensis, Seria Electrotehnica*, 48, (2007), 165-168.
34. Mateaș M., Lovasz E.-C., Văcărescu V., Ianoși E. - Proposal for a situation system for spinal column 3D geometry determination, *Acta Technica Napocensis, Seria Electrotehnica*, 48, (2007), 169-172.
35. Modler, Karl-Heinz, Wilhelm, Erik, Lovasz, E.-C., Kleemann, Andreas - "Optimale Auslegung sechsgliedriger Koppelgetriebe zur Erzeugung von Schmierbewegungen, Kurvengetriebe, Koppelgetriebe, gesteuerte Antriebe", *VDI Berichte 1845*, (2004), 289-308.

- Lista lucrărilor publicate la conferințe internaționale și naționale (extras)
1. Sticlaru C., Tuca P.L., Lovasz E.-C., Gruescu C.M., Maniu I., Moldovan C.E.: Novel Solution for the Mechanism used in the Actuation of Intelligent Roof Windows, 5th Conference of the Mechanisms Transmissions and Applications, Aachen, OCT 09-11, 2019, Mechanisms, Transmissions and Applications, Springer Book Series: Mechanism and Machine Science, 79, (2019), 182-191, ISSN 2211-0984
 2. Lovasz, E.-C., Sticlaru C., Suciuc C., Gruescu C.M., Ceccarelli M., Maniu I., Moldovan C.E.: Novel Actuation Design of an Active Elbow Orthosis, The 15th IFToMM World Congress, Krakow, 30.06-04.07 2019, Springer Book Series: Mechanisms and Machine Science v.73, (2019), 1527-1534, ISSN 2211-0984
 3. 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 2018, Udine, 11-13.09.2018, Book Series: Mechanisms and Machine Science v.66, (2019), 327-334, ISSN 2211-0984
 3. Lovasz, E.-C., Ceccarelli, M., Gruescu, C.M., Carbone, G., Cărăbaș, I.: A comparative analysis of teaching MMS at Politehnica University of Timișoara and University of Cassino and South Latium, Book Series: 2nd International Symposium on the Education in Mechanisms and Machine Science, Madrid, 23-24.11.2017, Book Series: Mechanisms and Machine Science v.64, (2019), 91-102, ISSN 2211-0984
 4. 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 New Trends in Medical and Service Robotics, MESROB 2018, Cassino, 04-06.07.2018, Book Series: Mechanisms and Machine Science v.65, (2019), 25-34, ISSN 2211-0984
 5. Grigorescu, S.M., Lovasz, E.-C., Pop, C.: Kinematic analysis of a 3-RRPS manipulator, The 12th IFToMM International Symposium on Science of Mechanisms and Machines - SYROM'2017, Iași, 02-03.11.2017, Book Series: Mechanisms and Machine Science v.57, (2018), 401-411, ISSN 2211-0984
 6. Vutan, A.-M., Ciupe, V., Gruescu, C.M., Lovasz, E.-C.: Experimental method for dynamic evaluation of spinal column deformation exercises, The 12th IFToMM International Symposium on Science of Mechanisms and Machines - SYROM'2017, Iași, 02-03.11.2017, Book Series: Mechanisms and Machine Science v.57, (2018), 137-146, ISSN 2211-0984
 7. Moldovan, C., Maniu, I., Lovasz, E.-C., Stoian, A.-M.: Study on the effects of rotation Axis misalignment in an exoskeleton-human hip joint, The 12th IFToMM International Symposium on Science of Mechanisms and Machines - SYROM'2017, Iași, 02-03.11.2017, Book Series: Mechanisms and Machine Science v.57, (2018), 165-170, ISSN 2211-0984
 8. Pop, F., Pop, C., Lovasz, E.-C., Grigorescu, S.M., Cărăbaș, I.: Single DOF leg mechanisms analysis using GIM software, The 12th IFToMM International Symposium on Science of Mechanisms and Machines - SYROM'2017, Iași, 02-03.11.2017, Book Series: Mechanisms and Machine Science v.57, (2018), 273-282, ISSN 2211-0984
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