

PUBLICAȚII ȘTIINȚIFICE

Conf.dr.ing. Alaci Stelian

Teza de doctorat:

“Efectul discontinuităților interne de tip gol asupra stării de tensiuni la contactul elastic plan”, conducător de doctorat: Prof.dr.ing. Emanuel Diaconescu, Universitatea “Ștefan cel Mare”, Suceava 2002, distincția *Magna cum laude*

Cărți publicate în edituri recunoscute:

1. **Alaci Stelian**, Mecanisme cu roți dințate, Geometria și cinematica, Editura Matrix, București, 2006, ISBN 973-755-051-X
2. **Alaci Stelian**, Mecanisme cu bare articulate, Geometria și cinematica, Editura Matrix, București, 2006, ISBN 973-755-050-1
3. **Alaci Stelian**, Mecanisme cu came, ISBN: 978-606-25-0227-0 Editura Matrix Rom Bucuresti 2016, 223p. *Medalie de bronz, EuroInvent 21 May2016 Iași*
4. **Alaci Stelian**, F C Ciornei, C Filote, Teorie, model si experiment in dinamica sistemelor cu percuții, ISBN: 978-606-25-0228-7, Editura Matrix Rom Bucuresti 2016, 280p. *Diploma de excelență, EuroInvent 21 May2016 Iași*
5. **Stelian Alaci**, Aplicații ale coordonatelor bipolare în elastostatica plană. Partea I. Rezultate teoretice, 294 pag. Matrixrom, 2020 CIP 24436/10.12.2020, ISBN 978-606-25-0611-7
6. **Stelian Alaci**, F C Ciornei, Elemente de cinematică spațială cu aplicații în robotică și teoria mecanismelor, 151 pag. Matrixrom, 2020 , CIP 24336/09.12.2020, ISBN 978-606-25-0610-0

Alte publicatii

Capitole în volume apărute la edituri internaționale:

1. Tribologie et developpement durable, ed.L. Flamand, Y. Berthier., *Partie 4 Biotribologie*, pp. 89-112, CONSIDÉRATIONS TRIBOLOGIQUE SUR LA CONCENTRATION DES CONTRAINTES DANS UN DENT AVEC OBTURATIONALACI by ALACI STELIAN, L. IRIMESCU, F. CIORNEI, GH. FRUNZA ET D. CERLINCA, EFFETS TRIBOLOGIQUES DE L'ÉTAT DES CONTRAINTES EN FRETTEING RADIAL; APPLICATIONS AUX CONTACTS DENTAIRES by L. IRIMESCU, F. C. CIORNEI,

- ALACI STELIAN ET GH. FRUNZA, (20-eme Journées Francophones de Tribologie, INSA Lyon, France 2008), Lausanne, 2012, Presses Polytechniques et Universitaires Romandes
2. Upon Applying Closed Contours Method in Plane Mechanisms with Higher Pairs, By: Alaci, S.; Ciornei, F. C.; Amarandei, D.; Cerlinca D., Edited by: Visa, I, Conference: 10th International Symposium on Science of Mechanisms and Machines Location: Brasov, ROMANIA Date: OCT 12-15, 2009, SYROM 2009: PROCEEDINGS OF THE 10TH IFTOMM INTERNATIONAL SYMPOSIUM ON SCIENCE OF MECHANISMS AND MACHINES, 2009 Pages: 207-216 Published: 2010 Springer
 3. Experimental Aspects Concerning Self-locking Angle, By: Alaci, S.; Ciornei, F. C.; Irimescu, L.; Amarandei D., Edited by: Visa, I, Conference: 10th International Symposium on Science of Mechanisms and Machines Location: Brasov, ROMANIA Date: OCT 12-15, 2009, SYROM 2009: PROCEEDINGS OF THE 10TH IFTOMM INTERNATIONAL SYMPOSIUM ON SCIENCE OF MECHANISMS AND MACHINES, 2009 Pages: 479-493 Published: 2010 Springer
 4. Siretean S.T., Muscă I., Alaci S., Ciornei F.-C., Use of hypocycloidal motion in the study of rolling friction, 2018, Mechanisms and Machine Science, 57, 467-476, 10.1007/978-3-319-79111-1_46, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047652514&doi=10.1007%2f978-3-319-79111-1_46&partnerID=40&md5=46c662b7ea119e7647f419c297647c6d, Springer Netherlands, Mech. Mach. Sci., Book Chapter, Scopus, 2-s2.0-85047652514
 5. Alaci S., Ciornei F.-C., Alexandru E.-V., Filote C., Kinetostatic of knife edge translating follower under dry friction conditions, 2018, Mechanisms and Machine Science, 57, 341-348, 10.1007/978-3-319-79111-1_34, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047647400&doi=10.1007%2f978-3-319-79111-1_34&partnerID=40&md5=3284cdf143bfa66ce4c7617655fb590c, Springer Netherlands, Mech. Mach. Sci., Book Chapter, Scopus, 2-s2.0-85047647400
 6. Alaci S., Buium F., Ciornei F.-C., Dobincă D.-I., Tetrapod coupling, 2018, Mechanisms and Machine Science, 57, 349-356, 10.1007/978-3-319-79111-1_35, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047639688&doi=10.1007%2f978-3-319-79111-1_35&partnerID=40&md5=d20cb87cece6a4d5dc81ae667c4b8efd, Springer Netherlands, Mech. Mach. Sci., Book Chapter, Scopus, 2-s2.0-85047639688
 7. Alaci S., Doroftei I., Buium F., Ciornei F.-C., Romanu I.-C., A Numerical Procedure for Position Analysis of a Robotic Structure. Part I: General Methodology, 2021, Mechanisms and Machine Science, 88, 23-32, 10.1007/978-3-030-60076-1_3, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093104328&doi=10.1007%2f978-3-030-60076-1_3&partnerID=40&md5=d8a39c57b0ba680fa88ce02e834352e4, Springer Science and Business Media B.V., Mech. Mach. Sci. Book Chapter, Scopus, 2-s2.0-85093104328
 8. Alaci S., Doroftei I., Buium F., Ciornei F.-C., Romanu I.-C., A Numerical Procedure for Position Analysis of a Robotic Structure. Part II: 3C Robotic Arm Illustration, 2021, Mechanisms and Machine Science, 88, 33-42, 10.1007/978-3-030-60076-1_4, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093076741&doi=10.1007%2f978-3-030-60076-1_4&partnerID=40&md5=2c20a8f7ccc67939f532e6f2db319ddf, Springer Science and Business Media B.V., Mech. Mach. Sci., Book Chapter, Scopus, 2-s2.0-85093076741

9. Alaci S., Alexandru C., Ciornei F.-C., Doroftei I., Irimescu L., Chaos illustrations in dynamics of mechanisms, 2020, Mechanisms and Machine Science, 89, 297-304, 10.1007/978-3-030-55061-5_34, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090288789&doi=10.1007%2f978-3-030-55061-5_34&partnerID=40&md5=d324d75547ce8a2dd5b399651c9c0b7a, Springer, Mech. Mach. Sci., Book Chapter, Scopus, 2-s2.0-85090288789

Îndrumare :

Alaci Stelian, Mecanisme-Îndrumar de proiect, Partea I: Mecanisme cu bare articulate, Ed. Universității Suceava, 2003, ISBN 973-8293-96-0, 90 pag.

Articole științifice:

2020

1.	Alaci Stelian, F-C Ciornei and F Buium Design and analysis of a new bicontact cam mechanism, 2020 <i>IOP Conf. Ser.: Mater. Sci. Eng.</i> 997 012066, https://doi.org/10.1088/1757-899X/997/1/012066
2.	F-C Ciornei, Alaci Stelian and C Bujoreanu, A model of the effect of dry friction on the behaviour of a dynamical system, 2020 <i>IOP Conf. Series: Materials Science and Engineering</i> 997 (2020) 012006 doi:10.1088/1757-899X/997/1/012006
3.	D P Bistriceanu, S G Pal, Alaci Stelian and C Bujoreanu, Influence of tightening screws process in high-pressure injection pump, 2020 <i>IOP Conf. Ser.: Mater. Sci. Eng.</i> 997 012004 https://doi.org/10.1088/1757-899X/997/1/012004
4.	F C Ciornei, Alaci Stelian and I Doroftei, The conjugate profile of the circular teeth of a spur gear. Part I: Problem statement, 2020 <i>IOP Conf. Ser.: Mater. Sci. Eng.</i> 997 012067, https://doi.org/10.1088/1757-899X/997/1/012067
5.	Alaci Stelian, F-C Ciornei and I Doroftei, The conjugate profile of the circular teeth of a spur gear. Part II: Problem solution, 2020 <i>IOP Conf. Ser.: Mater. Sci. Eng.</i> 997 012068, https://doi.org/10.1088/1757-899X/997/1/012068
6.	F Buium, D Leohchi and Alaci Stelian, About some problems regarding IKP-DKP of a 9R planar parallel mechanism, 2020 <i>IOP Conf. Ser.: Mater. Sci. Eng.</i> 997 012070, https://doi.org/10.1088/1757-899X/997/1/012070
7.	Alaci S., Muscă I., Pentiu Ș.-G., Study of the rolling friction coefficient between dissimilar materials through the motion of a conical pendulum, 2020, <i>Materials</i> , 13 (21), 5032, 1,-24, 10.3390/ma13215032, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85095973324&doi=10.3390%2fma13215032&partnerID=40&md5=d3a4e67f43ec76df1ffa5a6cb89f70cf , MDPI AG, Mater., Article, Scopus, 2-s2.0-85095973324,

8.	Alaci S., Bujoreanu C., Petrea N.D., Ciornei F.C., Irimescu L., Proposed parameter for the characterization of friction in cylindrical gears teeth contact, 2020, IOP Conference Series: Materials Science and Engineering, 724, 12008, 10.1088/1757-899X/724/1/012008, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079074747&doi=10.1088%2f1757-899X%2f724%2f1%2f012008&partnerID=40&md5=95ee76cc38e64a02e21eb003bb74a918 , UEFISCDI: PN-III-P1-1.2-PCCDI-2017-0404 / 31PCCDI/2018, Institute of Physics Publishing, 14th International Conference on Tribology, ROTRIB 2019, 19 September 2019 through 21 September 2019, 157023, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85079074747
9.	Alaci S., Ciornei F.C., Pentiu R.D., Ciornei M.C., Romănu I.C., Indetermination versus incompatibility in dynamic systems with dry friction, 2020, Journal of Physics: Conference Series, 1426, 1, 12011, 10.1088/1742-6596/1426/1/012011, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079078307&doi=10.1088%2f1742-6596%2f1426%2f1%2f012011&partnerID=40&md5=b24829c5f1bc863313b81ca3c3bd454d , PN-III-P1-1.2-PCCDI-2017-0404 / 31PCCDI/2018, Institute of Physics Publishing, International Conference on Applied Sciences 2019, ICAS 2019, 157042, J. Phys. Conf. Ser., Conference Paper, Scopus, 2-s2.0-85079078307
10.	Alaci S., Ciornei F.C., Pentiu R.D., Ciornei M.C., Romănu I.C., Upon the efficiency of gear transmissions, 2020, Journal of Physics: Conference Series, 1426, 1, 12012, 10.1088/1742-6596/1426/1/012012, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079063494&doi=10.1088%2f1742-6596%2f1426%2f1%2f012012&partnerID=40&md5=5e0cff0886540c27af996d6091864f55 , PN-III-P1-1.2-PCCDI-2017-0404 / 31PCCDI/2018, Institute of Physics Publishing, International Conference on Applied Sciences 2019, ICAS 2019, 157042, J. Phys. Conf. Ser., Conference Paper, Scopus, 2-s2.0-85079063494
11.	Alaci S., Kalitchin Z., Kandeve M., Ciornei F.C., Method and device for the study of damping of environmental friendly foam type materials, 2020, Journal of Environmental Protection and Ecology, 21, 4, 1298-1313, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85095731016&partnerID=40&md5=e417f360953373c06c27d8bf379a9664 , Scibulcom Ltd., J. Environ. Prot. Ecol., Article, Scopus, 2-s2.0-85095731016
12.	Alaci S., Irimescu L., Ciornei F.C., Kandeve M., Device and method for simultaneous determination of rolling and spinning friction in a concentrated contact, 2020, Journal of the Balkan Tribological Association, 26, 1, 1-10, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081610180&partnerID=40&md5=7b5b4b223df9ee1526d5b5feb3c84b22 , Scibulcom Ltd., J. Balkan Tribol. Assoc., Article, Scopus, 2-s2.0-85081610180
2019 13.	Ciornei F.C., Alaci S., Pentiu R.D., Doroftei I., Use of dual numbers in kinematical analysis of spatial mechanisms. Part I: Principle of the method, 2019, IOP Conference Series: Materials Science and Engineering, 568, 1, 12033, 10.1088/1757-899X/568/1/012033, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073471598&doi=10.1088%2f1757-899X%2f568%2f1%2f012033&partnerID=40&md5=5e9abe0cb425d2a9196a5faeaca8ed5e , PN-III-P1-1.2-PCCDI-2017-0404 / 31PCCDI/2018, Institute of Physics Publishing, Annual International Session of Scientific Papers - IMT Oradea 2019,152405, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85073471598

14.	Alaci S., Pentiu R.D., Doroftei I., Ciornei F.C., Use of dual numbers in kinematical analysis of spatial mechanisms. Part II: Applying the method for the generalised Cardan mechanism, 2019, IOP Conference Series: Materials Science and Engineering, 568, 1, 12032, 2, 10.1088/1757-899X/568/1/012032, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073419412&doi=10.1088%2f1757-899X%2f568%2f1%2f012032&partnerID=40&md5=111276abb986ad92517c3ac4347b9da3 , PN-III-P1-1.2-PCCDI-2017-0404 / 31PCCDI/2018, Institute of Physics Publishing, Annual International Session of Scientific Papers - IMT Oradea 2019, 152405, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85073419412,
15.	Alaci S., Pentiu R.D., Ciornei F.-C., Buium F., Rusu O.T., Kinematics analysis of the swash plate mechanism, 2019, IOP Conference Series: Materials Science and Engineering, 568, 1, 12017, 10.1088/1757-899X/568/1/012017, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073442085&doi=10.1088%2f1757-899X%2f568%2f1%2f012017&partnerID=40&md5=a05eee184e2ebcbe85b60c22e868de6e , PN-III-P1-1.2-PCCDI-2017-0404 / 31PCCDI/2018, Institute of Physics Publishing, Annual International Session of Scientific Papers - IMT Oradea 2019, 30 May 2019 through 31 May 2019, 152405, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85073442085,
16.	Ciornei F.-C., Alaci S., Pentiu R.D., Bujoreanu C., Rusu O.T., The study of the motion of a gyroscope without rotational symmetry, 2019, IOP Conference Series: Materials Science and Engineering, 568, 1, 12018, 10.1088/1757-899X/568/1/012018, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073434648&doi=10.1088%2f1757-899X%2f568%2f1%2f012018&partnerID=40&md5=7cd03e06a8d6f57404c490ea1605cf3b , PN-III-P1-1.2-PCCDI-2017-0404 / 31PCCDI/2018, Institute of Physics Publishing, Annual International Session of Scientific Papers - IMT Oradea 2019, 30 May 2019 through 31 May 2019, 152405, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85073434648,
17.	Petrea N.D., Bujoreanu C., Alaci S., Analysis of the noise emissions of a common-rail pump before and after an endurance test, 2019, IOP Conference Series: Materials Science and Engineering, 591, 1, 12064, 10.1088/1757-899X/591/1/012064, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072115159&doi=10.1088%2f1757-899X%2f591%2f1%2f012064&partnerID=40&md5=4698debfa56e0da4f9103708ebecdd8 , Institute of Physics Publishing, 7th International Conference on Modern Technologies in Industrial Engineering, ModTech 2019, 19 June 2019 through 22 June 2019, 151214, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85072115159,

18.	Ciornei F.C., Pentiu R.D., Alaci S., Romanu I.C., Siretean S.T., Ciornei M.C., An improved technique of finding the coefficient of rolling friction by inclined plane method, 2019, IOP Conference Series: Materials Science and Engineering, 514, 1, 12004, 1, 10.1088/1757-899X/514/1/012004, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069508488&doi=10.1088%2f1757-899X%2f514%2f1%2f012004&partnerID=40&md5=f7e0ea27a401cece56946f29606e3f18 , PN-III-P1-1.2-PCCDI-2017-0404 / 31PCCD 2018, Institute of Physics Publishing, 10th Product Design, Robotics, Advanced Mechanical and Mechatronic Systems and Innovation Conference, PRASIC 2018, 8 November 2018 through 9 November 2018, 149364, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85069508488,
19.	Alaci S., Pentiu R.-D., Ciornei F.C., Romanu I.C., Irimescu L., Buium F., Employment of hyper-cycloidal oscillatory motion for finding the coefficient of rolling friction. Part 1: Theoretical model, 2019, IOP Conference Series: Materials Science and Engineering, 514, 1, 12002, 10.1088/1757-899X/514/1/012002, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069508184&doi=10.1088%2f1757-899X%2f514%2f1%2f012002&partnerID=40&md5=74eb50d21b4335962641595225349c1e , PN-III-P1-1.2-PCCDI-2017-0404 / 31PCCDI 2018, Institute of Physics Publishing, 10th Product Design, Robotics, Advanced Mechanical and Mechatronic Systems and Innovation Conference, PRASIC 2018, 8 November 2018 through 9 November 2018, 149364, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85069508184,
20.	Alaci S., Pentiu R.D., Ciornei F.C., Romanu I.C., Siretean S.T., Ciornei M.C., Method for simultaneous estimation of rolling and spinning friction in a higher pair, 2019, IOP Conference Series: Materials Science and Engineering, 514, 1, 12005, 10.1088/1757-899X/514/1/012005, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069503942&doi=10.1088%2f1757-899X%2f514%2f1%2f012005&partnerID=40&md5=666e1ca825cc32b450d23cf12c5f79f6 , PN-III-P1-1.2-PCCDI-2017-0404 / 31PCCDI 2018, Institute of Physics Publishing, 10th Product Design, Robotics, Advanced Mechanical and Mechatronic Systems and Innovation Conference, PRASIC 2018, 149364, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85069503942,
21.	Ciornei F.C., Pentiu R.-D., Alaci S., Romanu I.C., Irimescu L., Buium F., Employment of hyper-cycloidal oscillatory motion for finding the coefficient of rolling friction. Part 2: Experimental investigation, 2019, IOP Conference Series: Materials Science and Engineering, 514, 1, 12003, 10.1088/1757-899X/514/1/012003, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069494976&doi=10.1088%2f1757-899X%2f514%2f1%2f012003&partnerID=40&md5=dc960c51a5c09615e493dac4ab431eb4 , Institute of Physics Publishing, 10th Product Design, Robotics, Advanced Mechanical and Mechatronic Systems and Innovation Conference, PRASIC 2018, 149364, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85069494976,

22.	Ciornei F.C., Alaci S., Romanu I.C., Mihai I., Tibu G.A., Kinematical analysis of a generalized Cardanic joint, 2019, IOP Conference Series: Materials Science and Engineering, 477, 1, 12037, 1, 10.1088/1757-899X/477/1/012037, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062730196&doi=10.1088%2f1757-899X%2f477%2f1%2f012037&partnerID=40&md5=54d5547fcdd9ba68829f0041a9635e4a , PN-III-P1-1.2-PCCDI-2017-0404 / 31PCCDI/2018, Banjalucka, Institute of Physics Publishing, International Conference on Applied Sciences 2018, ICAS 2018, 145626, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85062730196,	
23.	Ciornei F.C., Alaci S., Romanu I.C., Mihai I., Lazar V.C., Aspects concerning the friction for the motion on an inclined plane of an axisymmetric body, 2019, IOP Conference Series: Materials Science and Engineering, 477, 1, 12036, 1, 10.1088/1757-899X/477/1/012036, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062726266&doi=10.1088%2f1757-899X%2f477%2f1%2f012036&partnerID=40&md5=dfbe58ee16b2d1176a2ce20fc7b4a510 , PN-III-P1-1.2-PCCDI-2017-0404 / 31PCCDI/2018, Banjalucka, Institute of Physics Publishing, International Conference on Applied Sciences 2018, ICAS 2018, 145626, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85062726266,	
24.	Alaci S., Kalitchin Z., Kandeve M., Ciornei F.C., Bujoreanu C., Machado J., Simple technique and device for slurries viscosity measurement, 2019, Journal of Environmental Protection and Ecology, 20, 2, 761, 772, 4, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85080987918&partnerID=40&md5=2a7cc9e4c4687a3e7a2118172de2c2f0 , Scibulcom Ltd., J. Environ. Prot. Ecol., Article, Scopus, 2-s2.0-85080987918,	
2018	25.	Irimescu L., Alaci S., Considerations on friction coefficient in a simple harmonic motion, 2018, IOP Conference Series: Materials Science and Engineering, 444, 2, 22018, 10.1088/1757-899X/444/2/022018, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057757676&doi=10.1088%2f1757-899X%2f444%2f2%2f022018&partnerID=40&md5=80cf67178fbc55052a2cc233f5451d94 , FEDER, Institute of Physics Publishing, 8th International Conference on Advanced Concepts in Mechanical Engineering, ACME 2018, 142604, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85057757676,
26.	Siretean S.T., Alaci S., Musca I., Ciornei F.C., Determining the coefficient of rolling friction using hypocycloidal oscillations, 2018, IOP Conference Series: Materials Science and Engineering, 444, 2, 22017, 10.1088/1757-899X/444/2/022017, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057742627&doi=10.1088%2f1757-899X%2f444%2f2%2f022017&partnerID=40&md5=d6de73353bbdc4c3fe25ab347313201b , Institute of Physics Publishing, 8th International Conference on Advanced Concepts in Mechanical Engineering, ACME 2018, 142604, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85057742627,	

27.	Buium F., Leohchi D., Alaci S., Duca C., A versatile apparatus for inverse and direct kinematic analysis of 3RRR planar parallel mechanisms, 2018, IOP Conference Series: Materials Science and Engineering, 444, 5, 52009, 10.1088/1757-899X/444/5/052009, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057739026&doi=10.1088%2f1757-899X%2f444%2f5%2f052009&partnerID=40&md5=b93ac4a198ab28451421e1f82bc80f2b , Institute of Physics Publishing, 8th International Conference on Advanced Concepts in Mechanical Engineering, ACME 2018, 142604, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85057739026,
28.	Alaci S., Ciornei F.C., Bujoreanu C., Ciornei M.C., Acsinte I.L., Finding the coefficient of rolling friction using a pericycloidal pendulum, 2018, IOP Conference Series: Materials Science and Engineering, 444, 2, 22015, 2, 10.1088/1757-899X/444/2/022015 , https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057736009&doi=10.1088%2f1757-899X%2f444%2f2%2f022015&partnerID=40&md5=5ea47877f21083e756c6d88c3044f3f3 , PN-III-P1-1.2-PCCDI-2017-0404 / 31PCCDI/2018, Institute of Physics Publishing, 8th International Conference on Advanced Concepts in Mechanical Engineering, ACME 2018, 142604, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85057736009,
29.	Ciornei F.C., Alaci S., Dulucheanu C., Ciornei C., Ciornei M.C., The effect of mass eccentricity upon tribological test results, 2018, IOP Conference Series: Materials Science and Engineering, 444, 2, 22016, 10.1088/1757-899X/444/2/022016, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057728964&doi=10.1088%2f1757-899X%2f444%2f2%2f022016&partnerID=40&md5=56d2e8f292092e91088b99e858989b56 , Institute of Physics Publishing, 8th International Conference on Advanced Concepts in Mechanical Engineering, ACME 2018, 142604, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85057728964,
30.	Ciornei F.C., Doroftei I., Alaci S., Prelipcean G., Dulucheanu C., Analytical kinematics for direct coupled shafts using a point-surface contact, 2018, IOP Conference Series: Materials Science and Engineering, 444, 5, 52002, 1, 10.1088/1757-899X/444/5/052002, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057727044&doi=10.1088%2f1757-899X%2f444%2f5%2f052002&partnerID=40&md5=fbd9774c95c54d6e88cc8e0afbb3a19c , "UEFISCDI: PN-III-P1-1.1-MC-2018-3301CNCS", Institute of Physics Publishing, 8th International Conference on Advanced Concepts in Mechanical Engineering, ACME 2018 142604, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85057727044,
31.	Alaci S., Ciornei F.C., Buium F., Romanu I.C., Rusu O.T., Grapho-analytical kinematic analysis for plane cam mechanisms and follower with finite curvature, 2018, IOP Conference Series: Materials Science and Engineering, 444, 5, 52001, 10.1088/1757-899X/444/5/052001, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057726349&doi=10.1088%2f1757-899X%2f444%2f5%2f052001&partnerID=40&md5=9f66efb41b943cc6a401a76ccbbb4be0 , "UEFISCDI: PN-III-P1-1.1-MC-2018-3301, CNCS", Institute of Physics Publishing, 8th International Conference on Advanced Concepts in Mechanical Engineering, ACME 2018, 142604, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85057726349,

32.	Alaci S., Ciornei F.-C., Romanu I.-C., Ciornei M.-C., Evaluation of spinning friction from a thrust ball bearing, 2018, IOP Conference Series: Materials Science and Engineering, 400, 2, 22002, 1, 10.1088/1757-899X/400/2/022002, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059805619&doi=10.1088%2f1757-899X%2f400%2f2%2f022002&partnerID=40&md5=ef65ffb09cee2fd31a2784e6f40b8bdd , PN-III-P1-1.2-PCCDI-2017-0404 / 31PCCDI/2018, Institute of Physics Publishing, 6th International Conference on Modern Technologies in Industrial Engineering, ModTech 2018, 141170, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85059805619,
33.	Alaci S., Ciornei F.C., Romanu I.C., Ciornei M.C., Upon the relationship between rolling friction and sliding friction, 2018, IOP Conference Series: Materials Science and Engineering, 400, 4, 42002, 2, 10.1088/1757-899X/400/4/042002, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055811854&doi=10.1088%2f1757-899X%2f400%2f4%2f042002&partnerID=40&md5=c9746626fba8a15a2c69d8858cf9ff2e , PN-III-P1-1.2-PCCDI-2017-0404 / 31PCCDI/2018, Institute of Physics Publishing, 6th International Conference on Modern Technologies in Industrial Engineering, ModTech 2018, 141170, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85055811854,
34.	Alaci S., Ciornei F.-C., Siretean S.-T., Ciornei M.-C., Graphical-analytical analysis of the mechanism with rotating cam and flat-face follower, 2018, MATEC Web of Conferences, 184, 1010, 10.1051/mateconf/201818401010, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054593879&doi=10.1051%2fmateconf%2f201818401010&partnerID=40&md5=5f22faa3346bb2c557b3967f843157af , PN-III-P1-1.2-PCCDI-2017-0 0 1PCCDI, EDP Sciences, 2018 Annual Session of Scientific Papers IMT ORADEA 2018, 140050, MATEC Web Conf., Conference Paper, Scopus, 2-s2.0-85054593879,
35.	Ciornei F.-C., Alaci S., Siretean S.-T., Ciornei M.-C., An improved model for the damped impact of composite materials applicable to wind turbine blades, 2018, MATEC Web of Conferences, 184, 1008, 10.1051/mateconf/201818401008, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054590058&doi=10.1051%2fmateconf%2f201818401008&partnerID=40&md5=a415319260e2c56f887ab7b635c75290 , PN-III-P1-1.2-PCCDI-2017-0 0 1PCCDI, EDP Sciences, 2018 Annual Session of Scientific Papers IMT ORADEA 2018, 140050, MATEC Web Conf., Conference Paper, Scopus, 2-s2.0-85054590058,
36.	Alaci S., Ciornei F.-C., Siretean S.-T., Ciornei M.-C., Andreiibu G., Dynamical analysis of a 2-degrees of freedom spatial pendulum, 2018, MATEC Web of Conferences, 184, 1003, 1, 10.1051/mateconf/201818401003, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054598417&doi=10.1051%2fmateconf%2f201818401003&partnerID=40&md5=83bfed7779a634b087283f2333ae7bd5 , PN-III-P1-1.2-PCCDI-2017-3, EDP Sciences, 2018 Annual Session of Scientific Papers IMT ORADEA 2018, 140050, MATEC Web Conf., Conference Paper, Scopus, 2-s2.0-85054598417,

37.	Ciornei F.-C., Alaci S., Siretean S.-T., Ciornei M.-C., Dragoi I.-B., LazaR V.-C., Considerations on finding the rolling and spinning friction coefficients, 2018, MATEC Web of Conferences, 184, 1009, 10.1051/mateconf/201818401009, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054598083&doi=10.1051%2fmateconf%2f201818401009&partnerID=40&md5=51b07abc0e30c19fc845237a1ac3c704 , EDP Sciences, 2018 Annual Session of Scientific Papers IMT ORADEA 2018, 140050, MATEC Web Conf., Conference Paper, Scopus, 2-s2.0-85054598083,
38.	Alaci S., Ciornei F.C., Romanu I.C., Ciornei M.C., The importance of correct specification of tribological parameters in dynamical systems modelling, 2018, IOP Conference Series: Materials Science and Engineering, 294, 1, 12039, 1, 10.1088/1757-899X/294/1/012039, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040974059&doi=10.1088%2f1757-899X%2f294%2f1%2f012039&partnerID=40&md5=d4afbea4a7ee496a906fd84eca032560 , Institute of Physics Publishing, International Conference on Applied Sciences 2017, ICAS 2017, 133576, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85040974059,
39.	Ciornei F.C., Alaci S., Romanu I.C., Ciornei M.C., Sapon G., Identification of exponent from load-deformation relation for soft materials from impact tests, 2018, IOP Conference Series: Materials Science and Engineering, 294, 1, 12041, 10.1088/1757-899X/294/1/012041, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040971885&doi=10.1088%2f1757-899X%2f294%2f1%2f012041&partnerID=40&md5=7c82ef70f3b3ae7d1c9367be64bbe2ed , Institute of Physics Publishing, International Conference on Applied Sciences 2017, ICAS 2017, 133576, IOP Conf. Ser. Mater. Sci. Eng., Conference Paper, Scopus, 2-s2.0-85040971885,
40.	Alaci S., Bujoreanu C., Ciornei F.C., Fodorcan D., Theoretical and experimental aspects regarding nonlinear effects of dry friction and unbalanced rotational mass in a dynamical system, 2018, Mechanika, 24, 6, 811, 816, 1, 10.5755/j01.mech.24.6.22470, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062220452&doi=10.5755%2fj01.mech.24.6.22470&partnerID=40&md5=f60b3ec12a2229075ec5e1bc5da3c5f5 , Kauno Technologijos Universitetas, Mechanika, Article, Scopus, 2-s2.0-85062220452,
41.	Alaci S., Ciornei F.-C., Musca I., Barz C., Siretean S.T., An accurate technique for finding the coefficient of rolling friction using the inclined plane method, 2018, Journal of the Balkan Tribological Association, 24, 4, 679, 689, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060648956&partnerID=40&md5=1f7bdda88da0a8a928d52b549166c280 , Scibulcom Ltd., J. Balkan Tribol. Assoc., Article, Scopus, 2-s2.0-85060648956,
42.	Alaci Stelian, F.C. Ciornei, Florentin Buium, Erwin-Vasile Alexandru, Gheorghita Sapon, Ioan Tamasag, A METHOD FOR DETERMINING THE ROLLING FRICTION TORQUE IN A THRUST BEARING. PART I, J Tehnomus 25, 2018, pp 49-53.
43.	Alaci Stelian, F.C. Ciornei, Florentin Buium, Erwin-Vasile Alexandru, Gheorghita Sapon, Ioan Tamasag, A METHOD FOR DETERMINING THE ROLLING FRICTION TORQUE IN A THRUST BEARING. PART I, J Tehnomus 25, 2018, pp 49-53.
44.	Alaci Stelian, F C Ciornei, D Amarandei, L Irimescu, I C Romanu and M A Rotar, The effect of transport velocity upon spin torque 13th International Conference on Tribology, ROTRIB'16 IOP Publishing, IOP Conf. Series: Materials Science and Engineering 174 (2017) 012008 doi:10.1088/1757-899X/174/1/012008

45.	F C Ciornei, Alaci Stelian, D Amarandei, L Irimescu, I C Romanu and L I Acsinte, Method and device for measurement of dynamic viscosity, 13th International Conference on Tribology, ROTRIB'16 IOP Publishing, IOP Conf. Series: Materials Science and Engineering 174 (2017) 012041 doi:10.1088/1757-899X/174/1/012041
46.	Alaci Stelian, F C Ciornei, A Ciogole and M C Ciornei, Estimation of coefficient of rolling friction by the evolvent pendulum method, Innovative Ideas in Science 2016 IOP Conf. Series: Materials Science and Engineering 200 (2017) 012005 doi:10.1088/1757-899X/200/1/012005
47.	F C Ciornei, Alaci Stelian, V I Ciogole and M C Ciornei, Valuation of coefficient of rolling friction by the inclined plane method, Innovative Ideas in Science 2016 IOP Conf. Series: Materials Science and Engineering 200 (2017) 012006 doi:10.1088/1757-899X/200/1/012006
48.	Alaci Stelian, Constantin Filote, Daniel Fodorcan, Erwin - Vasile Alexandru, Dumitru Amarandei and F.C. Ciornei. Damped periodic motions used in the study of the drag coefficient, 112 MATEC Web of Conferences 07003 IManE&E 2017
49.	F.C. Ciornei, Alaci Stelian, Dumitru Amarandei, Constantin Filote and Ioan Tamasag. Rigidity versus deformability hypothesis in impact dynamics; 112 MATEC Web of Conferences 07005 IManE&E 2017
50.	Alaci Stelian, Luminita Irimescu, Marian Adrian Popescu, Daniel Fodorcan, Dumitru Amarandei and F.C. Ciornei. Testing the assumption of linear dependence between the rolling fric on torque and normal force; 112 MATEC Web of Conferences 07002 IManE&E 2017
51.	M C Ciornei, Alaci Stelian, F C Ciornei, I C Romanu, Use of loading-unloading compression curves in medical device design, ModTECH IOP Publishing IOP Conf. Series: Materials Science and Engineering 227 (2017) 012026
52.	M C Ciornei, Alaci Stelian, F C Ciornei, I C Romanu, A method for the determination of the coefficient of rolling friction using cycloidal pendulum, ModTECH IOP Publishing IOP Conf. Series: Materials Science and Engineering 227 (2017) 012027
53.	Alaci Stelian, F.C. Ciornei, Dumitru Amarandei, Marius Băeșu and Dumitru Mihăilă, ON DIRECT COUPLING OF TWO SHAFTS. PART1: STRUCTURAL CONSIDERATION, Tehnomus 2017, pp277-280
54.	F.C. Ciornei, Dumitru Amarandei, Alaci Stelian, Ionuț-Cristian Românu and Marius Băeșu, ON DIRECT COUPLING OF TWO SHAFTS. PART 2: KINEMATICAL ANALYSIS Tehnomus 2017, pp 281-285
55.	F C Ciornei, Alaci Stelian, I C Romanu, M C Ciornei and G Soapon, Identification of exponent from load-deformation relation for soft materials from impact tests, International Conference on Applied Sciences (ICAS2017) IOP Publishing, IOP Conf. Series: Materials Science and Engineering 294 (2017) 012041 doi:10.1088/1757-899X/294/1/012041

2016

56.	Alaci Stelian, F C Ciornei, I C Romanu and M C Ciornei, The importance of correct specification of tribological parameters in dynamical systems modelling, International Conference on Applied Sciences (ICAS2017) IOP Publishing IOP Conf. Series: Materials Science and Engineering 294 (2017) 012039 doi:10.1088/1757-899X/294/1/012039
57.	Alaci , S., Ciornei. F.C., Mihai, F., Amarandei. D., Siretean, S.T.: Some Considerations Concerning Axodes Outlining During The Motion Of Bodies With Multiple Contacts, Prasic 2016, Proceedings of the IXth International Conference on Product Design, Robotics, Advanced Mechanical & Mechatronic Systems and Innovation – PRASIC November 10–11, 2016 BRAȘOV, BULLETIN OF THE TRANSILVANIA UNIVERSITY OF BRAȘOV VOL. 9 (58) SERIES I, NO. 2 SPECIAL ISSUE - 2016 p 1-6
58.	Siretean, S.T., Alaci , S., Ciornei, F.C., Musca, I.: Hertzian Point Contact – Sliding And Rolling Aspects, Prasic 2016, Proceedings of the IXth International Conference on Product Design, Robotics, Advanced Mechanical & Mechatronic Systems and Innovation – PRASIC November 10–11, 2016 BRAȘOV, BULLETIN OF THE TRANSILVANIA UNIVERSITY OF BRAȘOV VOL. 9 (58) SERIES I, NO. 2 SPECIAL ISSUE - 2016p 259-268
59.	Alaci Stelian, Ciornei F.C., SOME CONSIDERATIONS ON PURE ROLLING IN MULTIBODY MECHANICAL SYSTEMS, p 54-59, Tehnomus Journal 2016 : http://www.tehnomusjournal.fim.usv.ro
60.	Ciornei F.C., Alaci Stelian, SOME ASPECTS UPON MODELLING THE BEHAVIOUR OF A CORRUGATED MEMBRANE USING FINITE ELEMENT ANALYSIS Tehnomus Journal 2016: http://www.tehnomusjournal.fim.usv.ro p 68-72
61.	Alaci Stelian, Ciornei F.C., UPON EXPERIMENTAL DATA INTERPOLATION USING POWER FUNCTIONS. PART I: THEORETICAL CONSIDERATIONS, Tehnomus Journal 2016: http://www.tehnomusjournal.fim.usv.ro p 73-77
62.	Ciornei F.C., Alaci Stelian, UPON EXPERIMENTAL DATA INTERPOLATION USING POWER FUNCTIONS. PART II: APPLICATION OF INTERPOLATION TO INDENTATION TESTS DATA Tehnomus Journal 2016: http://www.tehnomusjournal.fim.usv.ro p 78-83
63.	Alaci Stelian, F.C. Ciornei Validation of a Criterion for Cam Mechanisms Optimization Using Constraints upon Cam's Curvature, Robotica&Management, 21-1, p 5-9, 2016
64.	Ciornei F.C., Alaci Stelian, Aspects Regarding Evaluation of Friction Effects in Robotic Systems, Robotica&Management, 21-1, p 10-15, 2016
65.	Alaci Stelian, F.C. Ciornei, Considerations Related to Interpolation of Experimental Data Using Piecewise Functions, Robotica&Management, 21-2, p 4-9, 2016
66.	F.C. Ciornei, Alaci Stelian, Characterization of Rubbers from Spherical Punch - Plate Indentation Tests, Robotica&Management, 21-2, p 10-16, 2016
67.	Considerations upon applying tripodic coupling in artificial hip joint, Alaci Stelian, M C Ciornei, C Filote, F C Ciornei and M C Gradinariu, ACME 2016 Proceedings, IOP Conf. Series: Materials Science and Engineering 147 (2016) 012074

68.	Determination of the coefficient of friction using spinning motion, Alaci Stelian, F C Ciornei, C Filote, I C Romanu and C P Nastaca ACME 2016 Proceedings, IOP Conf. Series: Materials Science and Engineering 147 (2016) 012024
69.	SOME REMARKS UPON COLLISION BETWEEN A DROPPING BALL AND A ROTATING DISK, ST. ALACI , FL. CIORNEI, C. FILOTE, Journal of the Balkan Tribological Association Vol. 22, No 2,1560–1579 (2016),
70.	ALACI STELIAN, F.-C. CIORNEI, C. FILOTE. Theoretical and Experimental Stress States in Diametrically Loaded Eccentric Rings, Journal of the Balkan Tribological Association JBTA, Vol (22-3-A-I), pp.2959-2979, 2016
71.	Alaci Stelian, M C Ciornei, F C Ciornei, C Filote And D Amarandei, Method and device for dynamic modelling of rubbery materials applied to human soft tissues. Part I: determination of mechanical characteristics and dynamic model proposal, 20th Innovative Manufacturing Engineering and Energy Conference (IManEE 2016), IOP Conf. Series: Materials Science and Engineering 161 (2016) 012056 DOI:10.1088/1757-899X/161/1/01205
72.	Alaci Stelian, M C Ciornei, F C Ciornei, C Filote And I C Romanu Method and device for dynamic modelling of rubbery materials applied to human soft tissues. Part II: device and experimental results, IOP Conf. Series: Materials Science and Engineering 160 (2016) 012057 DOI:10.1088/1757-899X/160/1/012057
73.	Experimental Highlight of Hysteresis Phenomenon in Rolling Contact, Alaci Stelian, D A Cerlincă, F C Ciornei, C Filote and G Frunză, Journal of Physics: Conference Series 585 (2015) 012010 doi:10.1088/1742-6596/585/1/012010, 1-9 http://iopscience.iop.org/1742-6596/585/1/012010
74.	Method of Integration for Equation of Two Balls in Dumped Collision, Alaci Stelian, D A Cerlincă, F C Ciornei, C Filote and G Frunză, Journal of Physics: Conference Series 585 (2015) 012008 doi:10.1088/1742-6596/585/1/012008, 1-9 http://iopscience.iop.org/1742-6596/585/1/012008
75.	Alaci Stelian, FC Ciornei, KINEMATICS OF MECHANISM WITH ROTATING CAM AND FLAT FACE OSCILLATING FOLLOWER. PART I: ANALYTICAL SOLUTIONS, JESR, Number 2, Volume XXI, 2015 http://pubs.ub.ro/?pg=revues&rev=jesr&num=201502&vol=21&aid=4286 online nov.2015
76.	Alaci Stelian, FC Ciornei KINEMATICS OF MECHANISM WITH ROTATING CAM AND FLAT FACE OSCILLATING FOLLOWER. PART II: NUMERICAL AND EXPERIMENTAL METHODS, JESR, Number 2, Volume XXI, 2015, online nov.2015 http://pubs.ub.ro/?pg=revues&rev=jesr&num=201502&vol=21&aid=4287
77.	FC Ciornei, Alaci Stelian, CHARACTERIZATION OF RHEOLOGICAL PROPERTIES OF SEMISOLID MATERIALS USED AS THERMAL INTERFACES. PART II: EXPERIMENTAL TESTCHARACTERIZATION OF RHEOLOGICAL PROPERTIES OF SEMISOLID MATERIALS USED AS THERMAL INTERFACES. PART II: EXPERIMENTAL TESTS, online nov .2015, http://pubs.ub.ro/?pg=revues&rev=jesr&num=201502&vol=21&aid=4288
78.	FC Ciornei, Alaci Stelian, CHARACTERIZATION OF RHEOLOGICAL PROPERTIES OF SEMISOLID MATERIALS USED AS THERMAL INTERFACES. PART I: A BRIEF REVIEW, JESR, Number 4, Volume XXI, 2015, http://pubs.ub.ro/?pg=revues&rev=jesr&num=201504&vol=21&aid=4374

2015

79.	SOME CONSIDERATIONS REGARDING PLANE TO PLANE PARALLELISM ERROR EFFECTS IN ROBOTIC SYSTEMAlaci Stelian Stelian,Ciornei FC, Robotica and management, 20-1, 2015, http://www.robotica-management.uem.ro/fileadmin/Robotica/2015_1/Pag_13_Alaci.pdf
80.	Ciornei FC, Alaci S. , ASPECTS CONCERNING MODELLING CONTACT PRESSURE OF POLYMERIC MATERIALS USED IN ROBOTIC SOFT ELEMENT, Robotica and management, 20-1, 2015, http://www.robotica-management.uem.ro/fileadmin/Robotica/2015_1/Pag_17_Ciornei.pdf
81.	Alaci S. , Ciornei FC., ESTABLISHING THE POSITION OF PLANE MECHANISMS WITH HIGHER PAIRS, Robotica and management, 20-2, 2015, http://www.robotica-management.uem.ro/fileadmin/Robotica/2015_2/Pag_03_Alaci.pdf
82.	Ciornei FC, Alaci S. , CONSIDERATIONS ON VELOCITIES AND ACCELERATIONS IN HIGHER PAIRS MECHANISMS, Robotica and management, 20-2, 2015, http://www.robotica-management.uem.ro/fileadmin/Robotica/2015_2/Pag_20_Ciornei.pdf
83.	ALACI Stelian , CIORNEI F.C.,FILOTE Constantin and ROMĂNU Ionuț-Cristian, Analysis of Postimpact Plastic Indentation Profiles AMM 2015 Vols. 809-810, pp 223-228
84.	ALACI Stelian , CIORNEI Florina and FILOTE Constantin Rotating Cam and Knife Edge Follower Mechanism Optimisation from Cam Curvature Constraints, AMM 2015, Vols. 809-810, pp 598-603
85.	Alaci Stelian , Ciornei F.C., Equivalence Between ball-rotating disc impact and ball-inclined plane impact, Part I: equivalence constraints, plastic imprints comparison, http://imtuoradea.ro/conf/download/Published_Papers_IMT_Oradea_2015.pdf
86.	Ciornei F.C., Alaci Stelian , Equivalence Between ball-rotating disc impact and ball-inclined plane impact, Part II: angular velocity comparison http://imtuoradea.ro/conf/download/Published_Papers_IMT_Oradea_2015.pdf
87.	Ciornei F.C., Alaci Stelian a consequence of post-impact radial profile shape of indentation. Part I: experimental evidences http://imtuoradea.ro/conf/download/Published_Papers_IMT_Oradea_2015.pdf
88.	Alaci Stelian , Ciornei F.C., a consequence of post-impact radial profile shape of indentation. Part II: A possible explanation http://imtuoradea.ro/conf/download/Published_Papers_IMT_Oradea_2015.pdf
89.	Alaci Stelian, F.C. Ciornei, Dumitru Amarandei, PROPOSED METHOD FOR UNDERCUTTING PHENOMENON IDENTIFICATION IN CAM MECHANISMS http://www.fim.usv.ro/conf_1/tehnomusjournal/pagini/journal2015/files/92.pdf
90.	F.C. Ciornei, Alaci Stelian, Dumitru Amarandei, EFFECT OF CENTRIFUGAL FORCE AND GEOMETRY UPON DYNAMICAL BEHAVIOUR OF ROTATING CAMS http://www.fim.usv.ro/conf_1/tehnomusjournal/pagini/journal2015/files/95.pdf

2014

91.	F.C. Ciornei, Alaci Stelian, Stefan Besliu, UPON INTERPOLATION OF CONTACT TESTS EXPERIMENTAL DATA FROM DYNAMICAL SYSTEMS http://www.fim.usv.ro/conf_1/tehnomusjournal/pagini/journal2015/files/97.pdf
92.	Alaci Stelian , Ciornei F.C., DYNAMIC CONSEQUENCES OF UNPARALLELISM OF AXES IN MECHANISMS WITH OSCILLATING FOLLOWER http://www.fim.usv.ro/conf_1/tehnomusjournal/pagini/journal2015/files/93.pdf
93.	Traian Severin, F.C. Ciornei, Baesu Marius, Alaci Stelian, Ionuț Cristian Românu, THE PRESENCE OF VELOCITY DISCONTINUITIES IN NANOINDENTATION TESTS http://www.fim.usv.ro/conf_1/tehnomusjournal/pagini/journal2015/files/96.pdf
94.	Ștefan Beșliu, Traian-Lucian Severin, Alaci Stelian, F.C. Ciornei, THE EFFECT OF EXPERIMENTAL ERRORS FROM HARDNESS TESTS UPON FORCE-DISPLACEMENT RELATIONSHIP http://www.fim.usv.ro/conf_1/tehnomusjournal/pagini/journal2015/files/94.pdf
95.	Alaci Stelian, F.C. Ciornei, Constantin Filote, Some Consideration Regarding the Models for Collisions with Plastic Indentation, Applied Mechanics and Materials, vol.658, 2014, pp. 161-166, http://www.scientific.net/AMM.658.161
96.	F.C. Ciornei, Alaci Stelian , The use of circular arc cams for the command of a robotic system. Part I: theoretical considerations, Robotica&Management, 19-2, 2014, pp 3-6, http://www.robotica-management.uem.ro/fileadmin/Robotica/2014_2/Pag_03_Ciornei.pdf
97.	Alaci Stelian , F.C. Ciornei, The use of circular arc cams for the command of a robotic system. Part II: application to knife edge translating follower, Robotica&Management, 19-2, 2014, pp 7-12, http://www.robotica-management.uem.ro/fileadmin/Robotica/2014_2/Pag_07_Alaci.pdf
98.	Alaci Stelian, Luminta Irimescu, F.C. Ciornei, Ancuta Popescu, DEVICE AND METHOD FOR STUDYING THE DYNAMICS OF SYSTEMS SUBJECTED TO FRICTIONAL IMPACT. PART I: SLIDING FRICTION CASE, Tehnomus Journal, nr. 21, 2014, p 38-43
99.	Alaci Stelian, Dumitru Amarandei, F.C. Ciornei MODELLING DYNAMICAL BEHAVIOUR OF WOBBLE PLATE MECHANISM,, Tehnomus Journal, nr. 21, 2014 pp. 58-62
100.	Ciornei F.C., Alaci Stelian , Filote Constantin, DEVICE AND METHOD FOR STUDYING THE DYNAMICS OF SYSTEMS SUBJECTED TO FRICTIONAL IMPACT. PART II: ROLLING FRICTION CASE, Tehnomus Journal, nr. 21, 2014 pp. 99-104
101.	Ciornei F.C., Alaci Stelian ASPECTS OF MEDIEVAL TECHNOLOGICAL PROGRESS, DUE TO CISTERCIAN ORDER, IN THE REGION OF NOWADAYS ROMANIA,, TEHNOLOGIA INOVATIVĂ– Revista „Construcția de mașini” an 66/nr. 1 / 2014 pag.13-16
102.	Alaci Stelian, F.C. CIORNEI, ESTIMATION OF ANGULAR VELOCITY SUBSEQUENT TO A PLANE IMPACT ANNALS OF THE ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering, Volume XIII (XXIII), 2014, NR1, May, pp. 41-44, ISSN 1583-0691

103.	Alaci Stelian, F.C. CIORNEI, Comparative analysis of indentations from spatial impact with plastic deformations, ANNALS OF THE ORADEA UNIVERSITY.Fascicle of Management and Technological Engineering, Volume XIII (XXIII), 2014, NR1 May pp. 107-110, ISSN 1583-0691
104.	F.C. CIORNEI, Alaci Stelian EXPERIMENTAL FINDING OF AXIAL MOMENT OF INERTIA,, ANNALS OF THE ORADEA UNIVERSITY.Fascicle of Management and Technological Engineering, Volume XIII (XXIII), 2014, NR1 May, pp. 67-70, ISSN 1583-0691
105.	F.C. CIORNEI, Alaci Stelian, The effects of Geometry and material properties on the coefficient of restitution, ANNALS OF THE ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering, Volume XIII (XXIII), 2014, NR1 May, pp. 11-14, ISSN 1583-0691
106.	Alaci Stelian, Ciornei F.C., EVALUATION OF INTERNAL FRICTION VERSUS PLASTIC DEFORMATIONS EFFECTS IN IMPACT DYNAMICS PROBLEMS, Robotica & Management, 19-1-2014, pp 6-10
107.	Ciornei F.C., Alaci Stelian, PLASTIC INDENTATION ANALYSIS USED IN STUDY OF COLLIDING ROBOTIC ELEMENTS,, Robotica & Management, 19-1-2014 -pp 11-16
108.	Alaci , S.; Ciornei, F. C.; Filote, C, Considerations upon a new tripod joint solution, MECHANIKA Issue: 5 Pages: 567-574 Published: 2013, http://zurnalas.mechanika.ktu.lt/files/Alaci19%285%29.pdf , http://www.mechanika.ktu.lt/index.php/Mech
109.	Alaci , S., Ciornei, F.C., Filote, C., The Fourier series expansions in bipolar coordinates of the Boussinesq Cerruti potentials and some consequences, 2013, Journal of the Balkan Tribological Association, ISSN 1310-4772, 19(1) p.1-13, http://www.scibulcom.net/
110.	Alaci S., Ciornei F.C., Gherzum V-D., Păli I.EXPERIMENTAL HIGHLIGHTS UPON TANGENTIAL PERCUSSIONS IN MECHANICAL SYSTEMS,, Robotica & Management, 18-2/2013, pp. 5-8
111.	Ciornei F.C., Alaci S., Bedrule R.I., Drelciuc C.M., THE COEFFICIENT OF FRICTION, A BASIC PARAMETER IN DESIGN AND OPERATION OF ROBOT GRASPING, Robotica & Management, 18-2/2013, pp. 13-16
112.	Alaci Stelian, The effect of random geometrical and mechanical parameters in impact experiments, Annals of the University of Oradea, Fascicle of Management and Technological Engineering, Volume XXII (XII), 2013/1, DOI10.15660/AUOFMTE.2013-1.2768,
113.	Alaci Stelian, Some remarks upon using shock sensors in dynamical systems, Annals of the University of Oradea, Fascicle of Management and Technological Engineering, Volume XXII (XII), 2013/1, DOI10.15660/AUOFMTE.2013-1.2769,
114.	Alaci Stelian, Kinematic discontinuities effect upon gimbals working, Annals of the University of Oradea, Fascicle of Management and Technological Engineering, Volume XXII (XII), 2013/1, DOI10.15660/AUOFMTE.2013-1.2770,

2012	115. C. Filote, C. Ciufudean, Alaci Stelian , G. Marusic, A.M. Cozgarea, <i>The Spline analysis of parameters and pollutants dispersion in river surface water</i> , 14 th International Conference on Mathematical and Computational Methods in Science and Engineering, MACMESE 2012, Sliema, Malta, Sept. 7-9, 2012, ISBN: 978-1-61804-117-3, Advances in Mathematical and Computational Methods, pp. 243-246
	116. Alaci Stelian , F. Ciornei, C. Ciufudean, C. Filote, The use of shock waves in ensuring accuracy of a ball launcher for collision study, 2012, 14th International Conference on Mathematical and Computational Methods in Science and Engineering, MACMESE 2012, Sliema, Malta, Sept. 7-9, 2012, ISBN: 978-1-61804-117-3, Advances in Mathematical and Computational Methods, pp. 166-171
	117. Alaci Stelian , F Ciornei, Călin Ciufudean, C Filote, Ionut Românu, <i>Experimental Validation of Theoretical Model for Centric Dumped Collision between Two Balls</i> , Mathematical Methods for Information Science and Economics, Montreux, Switzerland Dec. 29-31, 2012, pp. 84-87 ISBN: 978-1-61804-148-7,
	118. Alexandru POTORAC, Dorel PRODAN, F.C. CIORNEI, Alaci Stelian, "OPTIKA" MICROSCOPE ADAPTATION FOR OPTICAL AND COMPUTER-AIDED MEASUREMENTS, ANNALS of the ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering, Volume XI (XXI), 2012, ISSN 1583-1691, CD-ROM Edition, NR 2,, Class B+, pg 3.34-39
	119. Alexandru POTORAC, Dorel PRODAN, F.C. CIORNEI, Alaci Stelian, PORTABLE SINE RULER, ANNALS of the ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering Volume XI (XXI), 2012, ISSN 1583-1691, CD-ROM Edition, NR 2, Class B+, pg 2.85-92
2011	120. Alaci Stelian, Gheorghe FRUNZĂ, F.C. CIORNEI, Constantin FILOTE, Luminița IRIMESCU, METHOD AND DEVICE FOR COULOMB FRICTION EVALUATION FROM COLLISION PROCESSES, THE ANNALS OF UNIVERSITY "DUNĂREA DE JOS" OF GALAȚI FASCICLE VIII, TRIBOLOGY 2011 (XVII) Issue 2, 63-66
	121. Alaci Stelian, Gheorghe FRUNZĂ, F.C. CIORNEI, Constantin FILOTE, Delia Aurora CERLINĂ, EXPERIMENTAL EVALUATION OF LOST ENERGY IN DUMPED COLLISION, THE ANNALS OF UNIVERSITY "DUNĂREA DE JOS" OF GALAȚI FASCICLE VIII, TRIBOLOGY 2011 (XVII) Issue 2, 88-92
	122. F.C. CIORNEI, Alaci Stelian, Delia CERLINCA, Luminita IRIMESCU, M.C. CIORNEI, LOAD FREQUENCY INFLUENCE UPON VISCOELASTIC HERTZIAN CONTACT, THE ANNALS OF UNIVERSITY "DUNĂREA DE JOS" OF GALAȚI FASCICLE VIII, TRIBOLOGY 2011 (XVII) Issue 2, 98-101
	123. PRODAN Dorel, CIORNEI F.C., POTORAC Alexandru, ALACI Stelian, PATRAȘ-CICEU Simion, ASPECTS REGARDING CIRCULAR CONTACT BETWEEN UNDULATED SURFACES IN THE ELASTO-PLASTIC DOMAIN, THE ANNALS OF UNIVERSITY "DUNĂREA DE JOS" OF GALAȚI FASCICLE VIII, TRIBOLOGY 2011 (XVII) Issue 2, 81-87
	124. C Filote, C Ciufudean, Alaci Stelian, AM Cozgarea, Harmonic elimination and power factor improvement of three-phase rectifier using RNSIC variant, 2011 International Conference on clean Electrical Power (ICCEP), pp 40-45, DOI10.1109/ICCEP.2011.6036326

125.	Alaci Stelian, Carmen CIORNEI, Dumitru AMARANDEI, Constantin FILOTE, Simion, PĂTRAȘ-CICEU, Dorel PRODAN, - SOME ASPECTS REGARDING COMPUTER AIDED DESIGN OF CAM MECHANISMS WITH FLAT FACE OSCILLATING FOLLOWER, Fiabilitate si Durabilitate - Fiability & Durability no 1(7)/2011, Editura “Academica Brâncuși”, Târgu Jiu, ISSN 1844 – 640X, pp 65-70, http://www.utgjiu.ro/rev_mec/mecanica/pdf/2011-01/12_Alaci.pdf
126.	Alaci Stelian, F.C. CIORNEI, Dumitru AMARANDEI, Constantin FILOTE, PĂTRAȘ-CICEU, Dorel PRODAN, SHOCK PROTECTION DEVICE FOR ROTATION SENSORS, Fiabilitate si Durabilitate - Fiability & Durability no 2(7)/2011, Editura “Academica Brâncuși”, Târgu Jiu, ISSN 1844 – 640X, pp 49-54, http://www.utgjiu.ro/rev_mec/mecanica/pdf/2011-02/9_Alaci.pdf
127.	Alaci Stelian, F.C. Ciornei, Dumitru Amarandei, Constantin Filote, Delia-Aurora Cerlincă, Sergiu Spînu, DYNAMIC ASPECTS OF DAMPED ELASTIC IMPACT PART 1. INFLUENCE OF COEFFICIENT OF RESTITUTION, ANNALS of the ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering, Volume X (XX), 2011, http://imtuoradea.ro/auo.fmte/article.php?v1=2011-1
128.	Alaci Stelian, F.C. Ciornei, Dumitru Amarandei, Constantin Filote, Luminița Irimescu, Sergiu Spînu, DYNAMIC ASPECTS OF DAMPED ELASTIC IMPACT PART 2: INFLUENCE OF INITIAL INDENTATION VELOCITY, ANNALS of the ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering, Volume X (XX), 2011, http://imtuoradea.ro/auo.fmte/article.php?v1=2011-2
129.	Alaci Stelian, F.C. Ciornei, Constantin Filote, Emanuel Ciocan, Corneliu Oleniuc, KINEMATIC AND DYNAMIC ASPECTS OF DAMPED COLLISION BETWEEN TWO METALLIC BALLS, THE ANNALS OF UNIVERSITY “DUNĂREA DE JOS” OF GALAȚI FASCICLE VIII, TRIBOLOGY 2011 (XVII) ISSN 1221-4590, pp70-75, http://www.om.ugal.ro/AnnalsFasc8Tribology/
130.	NUMERICAL MODELLING OF 3D IMPACT, Alaci STELIAN, Emanuel DIACONESCU, Florina CIORNEI, Luminița IRIMESCU, Delia CERLINCĂ, Ovidiu RUSU, THE ANNALS OF UNIVERSITY “DUNĂREA DE JOS” OF GALAȚI FASCICLE VIII, TRIBOLOGY 2010 (XVI) Issue 2, 54-58
131.	Alaci Stelian, F.C. Ciornei, Dumitru AMARANDEI, Constantin FILOTE, Delia-Aurora Cerlincă, Luminița IRIMESCU, STRESS CONCENTRATION DUE TO A SPHERICAL VOID UNDER HERTZIAN CONTACT, Tg. Jiu 2010, Revista Fiabilitate si Durabilitate / Fiability and Durability, Issue 1(5)/2010, CNCSIS, pp 67-72, http://www.utgjiu.ro/rev_mec/mecanica/pdf/2010-01/12_Stelian%20Alaci.pdf
132.	Alaci Stelian, F.C. CIORNEI, Dumitru AMARANDEI, Constantin FILOTE, Delia-Aurora CERLINCĂ, Luminița IRIMESCU, NUMERICAL VERSUS ANALYTICAL METHOD IN FINDING STRESS STATE IN MECHANISMS ELEMENTS, Tg. Jiu 2010, Revista Fiabilitate si Durabilitate/Fiability and Durability, Issue 2(6)/2010, CNCSIS Class B+, ISSN 1844-640x, pp 79-84

2010

133.	Florina CIORNEI, Alaci Stelian, Ilie Musca, Gheorghe Frunza, Luminita Irimescu, Delia CERLINCA, ASPECTS CONCERNING CONTACT STRESSES FROM A DENTAL ARTICULATOR JOINT, THE ANNALS OF THE UNIVERSITY "DUNAREA DE JOS" OF GALAȚI, Fascicle VIII: TRIBOLOGY, 2010 (XVI), ISSN 1221-4590, ISSUE 2pp 64-71 http://www.om.ugal.ro/AnnalsFasc8Tribology/index.htm
134.	F.C. Ciornei, Alaci Stelian, M.C. Ciornei, L. Irimescu, D.A. Cerlincă, FINITE ELEMENT ANALYSIS FOR A SIMPLIFIED MODEL OF A BLOOD VESSEL WITH LESION, ANNALS OF THE ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering VOLUME IX (XIX), 2010, ISSN 1583 - 0691, CNCSIS cod 564, http://auo.fmte.rdsor.ro/ ,
135.	F.C. Ciornei, M.C. Ciornei, Alaci Stelian, D.A. Cerlincă, L. Irimescu, SOME ASPECTS REGARDING RECENT ADVANCES IN LUNG MECHANICS MODELLING, ANNALS OF THE ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering VOLUME IX (XIX), 2010, ISSN 1583 - 0691, CNCSIS cod 564,, http://auo.fmte.rdsor.ro/ ,
136.	Delia Aurora CERLINCA, Sergiu SPÎNU, Alaci Stelian, F.C. CIORNEI, Luminita IRIMESCU, DESIGNING A SPHERICAL TAP using Solid Works- a didactic approach, ANNALS OF THE ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering VOLUME IX (XIX), 2010, ISSN 1583 - 0691, CNCSIS cod 564, "Clasa B+", http://auo.fmte.rdsor.ro/ , http://www.ulrichsweb.com/ulrichsweb/ulrichsweb_news/uu/newTitles.asp?uuMonthlyFile=uu200811/new_titles.txt&Letter=E&navPage=9& ,
137.	Delia Aurora CERLINCA, Alaci Stelian, Ovidiu Toader RUSU, Luminita IRIMESCU, F.C. CIORNEI, FEA OF STRESS CONCENTRATOR EFFECT FROM A ROTATING DISK WITH A KEYWAY, ANNALS OF THE ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering VOLUME IX (XIX), 2010, ISSN 1583 - 0691, CNCSIS cod 564, "Clasa B+", http://auo.fmte.rdsor.ro/ , http://www.ulrichsweb.com/ulrichsweb/ulrichsweb_news/uu/newTitles.asp?uuMonthlyFile=uu200811/new_titles.txt&Letter=E&navPage=9& ,
138.	Alaci Stelian, Dumitru AMARANDEI, Constantin FILOTE, F.C. CIORNEI, Luminita IRIMESCU, COMPARATIVE STUDY BETWEEN ANALYTICAL AND EXPERIMENTAL RESULTS FOR RSRC MECHANISM KINEMATICS, ANNALS OF THE ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering VOLUME IX (XIX), 2010, ISSN 1583 - 0691, CNCSIS cod 564, "Clasa B+", http://auo.fmte.rdsor.ro/ , http://www.ulrichsweb.com/ulrichsweb/ulrichsweb_news/uu/newTitles.asp?uuMonthlyFile=uu200811/new_titles.txt&Letter=E&navPage=9&
139.	Alaci Stelian, Dumitru AMARANDEI, Constantin FILOTE, F.C. CIORNEI, Delia Aurora CERLINCĂ, KINEMATICS EFFECTS DUE TO REPLACEMENT OF SPHERICAL JOINT BY REVOLUTE JOINTS IN RSRC MECHANISM, ANNALS OF THE ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering VOLUME IX (XIX), 2010, ISSN 1583 - 0691, CNCSIS cod 564, http://auo.fmte.rdsor.ro/

140.	Luminita IRIMESCU, Alaci Stelian, Delia Aurora CERLINCĂ, Florina C. CIORNEI, Dorel PRODAN, PROPOSED METHOD FOR MEASURING THE COEFFICIENT OF RESTITUTION, ANNALS OF THE ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering VOLUME IX (XIX), 2010, ISSN 1583 - 0691, CNCSIS cod 564, "Clasa B+", http://auo.fimte.rdsor.ro/ , http://www.ulrichsweb.com/ulrichsweb/ulrichsweb_news/uu/newTitles.asp?uuMonthlyFile=uu200811/new_titles.txt&Letter=E&navPage=9&
141.	Luminita IRIMESCU, F.C. CIORNEI, Alaci Stelian, Delia Aurora CERLINCĂ, A MODEL FOR PREDICTING THE MICRO-SLIP ZONE ON A FRETTING CONTACT INTERFACE, ANNALS OF THE ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering VOLUME IX (XIX), 2010, ISSN 1583 - 0691, CNCSIS cod 564, "Clasa B+", http://auo.fimte.rdsor.ro/ , indexed by http://www.ulrichsweb.com/ulrichsweb/ulrichsweb_news/uu/newTitles.asp?uuMonthlyFile=uu200811/new_titles.txt&Letter=E&navPage=9&
142.	Filote, C.; Ciufudean, C.; Alaci, S.; Vlad, V.; Cozgarea, A.M.; A comparative analysis of rotor flux simulators and observers, ACMOS'10: Proceedings of the 12th WSEAS international conference on Automatic control, modelling & simulation, pp. 195-200, World Scientific and Engineering Academy and Society (WSEAS), Stevens Point, Wisconsin, USA 2010, ISBN: 978-954-92600-1-4 [Scopus, ACM, EI Compendex,]
143.	Alaci Stelian, F.C. Ciornei, Constantin Filote, Dumitru Amarandei, Luminita Irimescu, Delia Cerlinca, NUMERICAL VERSUS ANALYTICAL RESULTS IN KINEMATICS OF RCCC MECHANISM, BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, Universitatea Tehnică „Gheorghe Asachi“ din Iași, Tomul LVI (LX), Fasc. 4, 2010, Secția CONSTRUCȚII DE MAȘINI, CNCSIS cod 500, B+, http://www.tuiasi.ro/facultati/cmmi/index.php?page=695 , http://journals.indexcopernicus.com/karta.php?action=masterlist&id=4963
144.	Alaci Stelian, F.C. Ciornei, Constantin Filote, Dumitru Amarandei, Luminita Irimescu, Delia Cerlinca, FEM ANALYSIS OF WOBBLE PLATE MECHANISM, BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, Universitatea Tehnică „Gheorghe Asachi“ din Iași, Tomul LVI (LX), Fasc. 4, 2010, Secția CONSTRUCȚII DE MAȘINI, CNCSIS cod 500, B+, http://www.tuiasi.ro/facultati/cmmi/index.php?page=695 , http://journals.indexcopernicus.com/karta.php?action=masterlist&id=4963
145.	Ciornei F.C., Alaci Stelian, Cerlinca Delia, Musca Ilie, Irimescu Luminita, Rusu Ovidiu, SOME ASPECTS REGARDING CYLINDRICAL BELLOWS BEHAVIOUR UNDER VARIOUS LOADS, BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, Universitatea Tehnică „Gheorghe Asachi“ din Iași, Tomul LVI (LX), Fasc. 4, 2010, Secția CONSTRUCȚII DE MAȘINI, CNCSIS cod 500, B+, http://www.tuiasi.ro/facultati/cmmi/index.php?page=695 , http://journals.indexcopernicus.com/karta.php?action=masterlist&id=4963

2009

146.	Ciornei F.C., Alaci Stelian , Cerlincă Delia, Frunză Gheorghe, Irimescu Luminița, Patraș-Ciceu Simion, FINITE ELEMENT STUDY OF RECTANGULAR CORRUGATED BELLOWS UNDER COMPRESSION AND BENDING, Universitatea Tehnică „Gheorghe Asachi“ din Iași, Tomul LVI (LX), Fasc. 4, 2010, Secția CONSTRUCȚII DE MAȘINI, CNCSIS cod 500, B+, http://www.tuiasi.ro/facultati/cmimi/index.php?page=695 , http://journals.indexcopernicus.com/karta.php?action=masterlist&id=4963
147.	F.C. CIORNEI, Alaci Stelian, Mariana Cătălina CIORNEI, Ilie MUSCĂ, Luminița IRIMESCU, SOME REMARKS ON CONTACT MODELS OF FINGERPAD - PART I: STATE OF THE ART, Annals of the Oradea University, Fascicle of Management and technological Engineering, CD-ROM EDITION, Vol VIII(XVIII), ISSN 1583-0691, CNCSIS ClassB+, indexed Ulrich's Periodicals Directory, 2009, http://imtuoradea.ro/auo.fmte/search.php?search_option_01=0&search_option_02=2&search_text=Ciornei
148.	F.C. CIORNEI, Alaci Stelian, Luminița IRIMESCU, Gheorghe FRUNZA, Delia Aurora CERLINCA, SOME REMARKS ON CONTACT MODELS OF FINGERPAD - PART II: SURFACE STRESSES, Annals of the Oradea University, Fascicle of Management and technological Engineering, CD-ROM EDITION, Vol VIII(XVIII), ISSN 1583-0691, CNCSIS ClassB+, indexed Ulrich's Periodicals Directory, 2009
149.	Luminita IRIMESCU, Alaci Stelian, F.C. CIORNEI, Dorel PRODAN, Delia CERLINCA, SOME REMARKS ON DRY FRICTION COEFFICIENT MEASUREMENT, Annals of the Oradea University, Fascicle of Management and technological Engineering, CD-ROM EDITION, Vol VIII(XVIII), ISSN 1583-0691, CNCSIS ClassB+, indexed Ulrich's Periodicals Directory, 2009
150.	Luminita IRIMESCU, F.C. CIORNEI, Alaci Stelian, Gheorghe FRUNZĂ, Yves BERTHIER, UPON BEHAVIOUR SIMILARITY IN TANGENTIAL AND RADIAL FRETTING, Annals of the Oradea University, Fascicle of Management and technological Engineering, CD-ROM EDITION, Vol VIII(XVIII), ISSN 1583-0691, CNCSIS ClassB+, indexed Ulrich's Periodicals Directory, 2009
151.	Simion PATRAS - CICEU, Alaci Stelian, F.C. CIORNEI, Dorel PRODAN, Ovidiu Toader RUSU, EXPERIMENTAL INVESTIGATIONS IN UNIAXIAL TENSION AND NUMERICAL SOLUTIONS FOR CURVE FITTING:PART 1– T+D70HEORETICAL PREDICTION, Annals of the Oradea University, Fascicle of Management and technological Engineering, CD-ROM EDITION, Vol VIII(XVIII), ISSN 1583-0691, CNCSIS ClassB+, indexed Ulrich's Periodicals Directory, 2009
152.	Simion PATRAS - CICEU, Alaci Stelian, F.C. CIORNEI, Ovidiu Toader RUSU, Dorel PRODAN, EXPERIMENTAL INVESTIGATIONS IN UNIAXIAL TENSION AND NUMERICAL SOLUTIONS FOR CURVE FITTING: PART 2 – EXPERIMENTAL RESULTS, Annals of the Oradea University, Fascicle of Management and technological Engineering, CD-ROM EDITION, Vol VIII(XVIII), ISSN 1583-0691, CNCSIS ClassB+, indexed Ulrich's Periodicals Directory, 2009

153.	Alaci Stelian, F.C. CIORNEI, Dumitru AMARANDEI,Constantin FILOTE, Delia Aurora CERLINCĂ, ANALITYCAL POSITION ANALYSIS FOR RSRC MECHANISM, Annals of the Oradea University, Fascicle of Management and technological Engineering, CD-ROM EDITION, Vol VIII(XVIII), ISSN 1583-0691, CNCSIS ClassB+, indexed Ulrich's Periodicals Directory, 2009
154.	Alaci Stelian, F.C. CIORNEI, Dumitru AMARANDEI,Constantin FILOTE, Delia-Aurora CERLINCĂ, OPTIMIZING THE ASSEMBLING OF RADIAL SPHERICAL PLAIN BEARING APPLIED TO RSRC MECHANISM, Annals of the Oradea University, Fascicle of Management and technological Engineering, CD-ROM EDITION, Vol VIII(XVIII), ISSN 1583-0691, CNCSIS ClassB+, indexed Ulrich's Periodicals Directory, 2009
155.	Alaci Stelian, Ciornei Florina, Amarandei Dumitru, Filote Constantin, STRESS STATE IN AN ELASTIC BENT PLANE WITH TWO IDENTICAL CIRCULAR HOLES, THE ANNALS OF "DUNĂREA DE JOS" UNIVERSITY OF GALAȚI, FASCICLE V, TECHNOLOGIES IN MACHINE BUILDING, ISSN 1221- 4566, 2009, CNCSIS B+, indexed in CSA Illumina http://www.csa.com/ids70/serials_source_list.php?db=techresearch-set-c
156.	Ciornei F.C., Alaci Stelian, Amarandei Dumitru, Filote Constantin, ANALYTICAL AND FEM METHODS FOR STRESS STATE ESTIMATION IN A SHEARED PLANE WITH TWO IDENTICAL CIRCULAR HOLES, ANNALS OF "DUNĂREA DE JOS" UNIVERSITY OF GALAȚI, FASCICLE V, TECHNOLOGIES IN MACHINE BUILDING, ISSN 1221- 4566, 2009 CNCSIS B+, indexed in http://www.csa.com/ids70/serials_source_list.php?db=techresearch-set-c
157.	Alaci Stelian, F.C. CIORNEI, Simion PĂTRAȘ-CICEU, ASPECTS CONCERNING RCCC SPATIAL MECHANISMS KINEMATICS,ACME 2008, Iași, ISSN 1011-2085, Tom LIV (LVIII) Fasc 1, Secția Construcției de Mașini,
158.	Alaci Stelian, F.C. Ciornei, Luminița Irimescu, Experimental evidence of stabilization effect for a Watt type angular velocity governor, ACME 2008, Iași, ISSN 1011-2085, ACME 2008, Iași, ISSN 1011-2085, Tom LIV (LVIII) Fasc 1, Secția Construcției de Mașini,
159.	F.C. Ciornei, Alaci Stelian, Luminita Irimescu And Delia Cerlinca, SUR L'ETAT DES CONTRAINTES EN FRETTEING RADIAL, ACME 2008, Iași, ISSN 1011-2085, ACME 2008, Iași, ISSN 1011-2085, Tom LIV (LVIII) Fasc 1, Secția Construcției de Mașini
160.	Alaci Stelian, Dumitru Amarandei, F.C. Ciornei, Simion Pătraș-Ciceu, SIMULATION OF GEAR RACK GENERATION OF INVOLUTE SPUR GEARS, 2008, Analele Universității Oradea, Fascicle of management and Technological Engineering, Volume VII (XVII), ISSN 1583-0691, CNCSIS "Clasa B+"
161.	Alaci Stelian, F.C. CIORNEI, Gheorghe FRUNZĂ, Delia-Aurora CERLINCĂ, STRESS CONCENTRATION FACTOR OF DENTAL FILLING, 2008, Analele Universității Oradea, Fascicle of Management and Technological Engineering, Volume VII (XVII), ISSN 1583-0691, CNCSIS "Clasa B+"
162.	Simion PATRAS - CICEU, F.C. CIORNEI, Alaci Stelian, THE SURFACE TEMPERATURE IN SLIDING CONTACTS OF WORKING FLANKS GEAR, PART 1 – ANALYTICAL SOLUTIONS, 2008, Analele Universității Oradea, Fascicle of Management and Technological Engineering, Volume VII (XVII), ISSN 1583-0691, CNCSIS "Clasa B+"

2007

163.	F.C. CIORNEI, Simion PATRAS - CICEU, Alaci Stelian, THE SURFACE TEMPERATURE IN SLIDING CONTACTS OF GEAR WORKING FLANKS, PART 2 – SURFACE TEMPERATURE IN ACTIVE FLANKS, 2008, Analele Universității Oradea, Fascicle of Management and Technological Engineering, Volume VII (XVII), ISSN 1583-0691, CNCSIS “Clasa B+”
164.	V Petrariu, D Amarandei, Alaci Stelian, Study about finite element analysis of high speed drilling, Annals of the Oradea University, Fascicle of Management and technological Engineering Vol XVII (VII) 2008, DOI:10.15660/AUOFMTE.2008.1189,
165.	F.C. CIORNEI, Alaci Stelian, Simion PĂTRAȘ-CICEU, EVALUATION OF ELASTIC PROPERTIES OF MATERIALS (AN EXPERIMENTAL METHOD),Oradea 2007, Analele Universitatii Oradea, Vol VI, An XVI, pg.43, on CD 227-233Class B+
166.	Alaci Stelian, F.C. CIORNEI, Simion PĂTRAȘ CICEU, A new type of cam mechanism, Oradea 2007, Analele Universitatii Oradea, Vol VI, An XVI, on CD pg.587-595Class B+
167.	Alaci Stelian, E Diaconescu, Fourier Series in Bipolar Co-Ordinates Corresponding To Polynomial Cartesian Elastic Potential, Annals of the Oradea University, Fascicle of Management and technological Engineering Volume XVI (VI), 2007, DOI10.15660/AUOFMTE.2007.578
168.	V Petrariu, Alaci Stelian, D Amarandei, A New Rough Cutting Method for Involute Gear Teeth, Annals of the Oradea University, Fasc. of Management and Technological Engineering Vol XVI (VI), 2007, DOI:10.15660/AUOFMTE.2007.783
169.	Alaci Stelian , E Diaconescu, Gheorghe Frunză, Singular Points in an Elastic Half-Plane Containing a Circular Hole, Loaded by a Normal Point Force on the Straight Boundary, The Annals of University “Dunărea De Jos “ Of Galați Fascicle VIII 2006(XII),SSN1221-4590 TRIBOLOGY, 89-96,
170.	Alaci, S. , Diaconescu, E., Frunză, Gh., Interaction Between Two Unequal Circular Holes Lying in a Sheared Elastic Plane, The Annals of University “Dunărea de Jos” of Galați, 2006 (XII), ISSN 1221-4590 pp 97-104 2006,
171.	Alaci, S. , Diaconescu, E. N., <i>Stress State in A Bent Plane With Two Different Circular Holes (The Axes of Centers is Normal to the neutral Axis of the Plane)</i> , Annals of the Oradea University, Fascicle of Management and Technological Engineering, Vol. V(XV) 2006, ISSN 1583-0691
172.	Alaci, S. , Rusu, O., <i>Computer Aided Design Of Radial Cams and Oscillating Roller Follower</i> , Annals of the Oradea University, Fascicle of Management and Technological Engineering, Vol. V(XV) 2006, ISSN 1583-0691
173.	Alaci, S. , Ciornei, C. F, <i>Fictive Follower Method</i> , BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, Publicat de Universitatea Tehnică „Gh. Asachi“, Iași,Tomul LII (LVI), Fasc. 6X, 2006, ISSN1011-2855

2006

2005

2004

174.	Alaci, S. , Irimescu, L., <i>Characteristics of relative motion In a Higher Pair between non-parallel Axes Cylinders</i> , BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI Publicat de Universitatea Tehnică „Gh. Asachi“, Iași, Tomul LII (LVI), Fasc. 6X, 2006, ISSN1011-2855
175.	Alaci, S. , Glovnea, R., Ciornei F. C., <i>Aspects of motion transmission between two axisymmetric bodies</i> , VAREHD 13, Suceava, 6 - 7 October 2006, ISBN-(10)973-666-215-2, (13)978-973-666-215-7
176.	Alaci, S. , Diaconescu, E. N., Mareș, C., <i>Stress State in Cerruti's Plane Problem For An Elastic Half-Plane with a Circular Hole.</i> , VAREHD 13, Suceava, 6 - 7 October 2006, ISBN-(10)973-666-215-2, (13)978-973-666-215-7
177.	Alaci S. , <i>Computer Aided Design of Cam Mechanisms with Translating Roller Follower</i> , PRASIC 2006, 9-10 noiembrie, 2006, Brașov, Vol.II, Mecanisme și Tribologie, ISBN (10)973-635-824-0, (13) 978-973-635-821-1
178.	Alaci, S. , Diaconescu, E. N., <i>Stress State in a Bent Elastic Plane with Two Dissimilar Circular Holes (Axis of Centres Normal to the Neutral Line)</i> , PRASIC 2006, 9-10 noiembrie, 2006, Brașov, Vol.II, Organe de Mașini, ISBN (10)973-635-825-9, (13) 978-973-635-825-8
179.	L Irimescu, I Muscă, Alaci Stelian, <i>Aspects theoriques et experimentaux concernant le coefficient de restitution</i> , The annals of University “Dunărea de Jos“ of Galați Fscicle VIII, 2005, ISSN 1221-4590 TRIBOLOGY pp, 85-88
180.	Alaci, S. , Irimescu, L., Petrov D., G, <i>Harmonic Analysis of Follower Motion from Circular Eccentric Cam Mechanisms</i> , The Annals of University “Dunărea de Jos” of Galați, Fascicle X, 2005, ISSN 1221-4612
181.	Alaci, S. , Ciornei, C.F., <i>Upon Applying Closed Vector Contours Method for Cam Mechanisms with Flat Face Follower</i> , The Annals of University “Dunărea de Jos” of Galați, Fascicle X, 2005, ISSN 1221-4612
182.	Alaci, S. , Diaconescu, E. N., Muscă, I., <i>Analytical and FEM Investigation of an Elastic Plane Containing an Elliptical Hole</i> , VAREHD 12, October, 2004, 8-9 October, 2004, ISBN 973-666-119-9
183.	Alaci, S. , Diaconescu, E. N., Frunză, Gh., Irimescu, L., <i>Etude photoelastique preliminare pour un contact en roulement</i> , VAREHD 12, October, 2004, 8-9 October, 2004, ISBN 973-666-119-9
184.	Alaci, S. , Diaconescu, E. N., Ciornei, C. F., <i>Determination of collision coefficient for collinear impact of two spheres</i> , VAREHD 12, 8-9 October, 2004, ISBN 973-666-119-9
185.	Alaci, S. , Diaconescu, E. N., <i>Theoretical and Experiemntal Investigations upon an Elastic Half-Plane Containing a Circular Hole Loaded by a Normal Point or a Hertz Pressure on The Boundary</i> , 2004 AIMETA International Tribology Conference, September 14-17, Rome, Italy

2003	186.	Alaci S. , E. Diaconescu, I. Muscă, On the Stresses Concentration Factor of a Circular Hole in a Elastic Plane Stretched Uniformly at Infinity, National Tribology Conference, ROTRIB, Galați, 2003, 24-26 september, Vol. I. The Annals of University “Dunărea de Jos” of Galați, Fascicle VIII, Tribology 2003 ISSN 1221-4590, pp 343-344
	187.	Alaci S. , Diaconescu, E. N., Muscă, I., Interaction Beteen Two Circular Holes in an Plane Stretched Uniformly at Infinity, National Tribology Conference, ROTRIB, Galați, 2003, 24-26 september, Vol. I The Annals of University “Dunărea de Jos” of Galați Fascicle VIII, Tribology, 2003, Pp 345-348
	188.	Alaci S. , <i>Asupra determinării vitezei relative și a razei de curbură în mecanismele cu camă rotativă și tachet de translație excentric</i> , VAREHD 11, Suceava, 18-19 April, 2003, ISBN 973-666-002-8
	189.	Alaci S. , Diaconescu, E. N., <i>Starea de tensiuni dintr-un plan elastic cu două găuri circulare identice, supus la forfecare</i> , VAREHD 11, Suceava, 18-19 April, 2003, ISBN 973-666-002-8
	190.	Alaci S. , Diaconescu, E. N., <i>Starea de tensiuni dintr-un plan elastic cu două găuri circulare identice, supus la încovoiere (axa centrelor coincide cu axa neutră)</i> , VAREHD 11, Suceava, 18-19 April, 2003, ISBN 973-666-002-8
	191.	Alaci S. , Diaconescu, E. N., <i>Starea de tensiuni dintr-un plan elastic cu două găuri circulare identice, supus la încovoiere (găurile dispuse simetric față de axa neutră a planului)</i> , VAREHD 11, Suceava, 18-19 April, 2003, ISBN 973-666-002-8
2002	192.	Alaci S. , <i>The Effect of Internal Circular Holes Upon the Stress Field in the Case of Plane Hertzian Contact</i> ”, Prelegere susținută în cadrul Laboratorului de Mecanica Contactului, INSA Lyon, 04 Septembrie, 2002
2001	193.	Alaci S. S. , & Diaconescu, E. N., <i>Stresses Induced by a Semi-Elliptic Traction Applied on the Boundary of an Elastic Half-Plane Containig a Circular Hole</i> , D.F: World Tribology Congres, 2001
	194.	Alaci S. S. , & Diaconescu, E. N., <i>Stresses Induced by a Concentrated Force on the Boundary of an Elastic Half-Plane</i> , D.F: World Tribology Congres, 2001
	195.	Alaci S. , Diaconescu, E., <i>Concentrated Force Acting on the Boundary of an Elastic Half-Plane, with Circular Hole</i> , Acta Tribologica, Vol. 9, 2001,1-6, ISSN, 1220-8434, Suceava
2000	196.	Alaci S. , Diaconescu, E. N., <i>Dezvoltări în serie ale potențialelor Boussinesq și Cerruti în coordonate bipolare</i> , VAREHD 10, Suceava, 2000
	197.	Alaci S. , Daiconescu, E. N., <i>Funcțiile de tensiuni în problema combinată Boussinesq-Cerruti pentru un semiplan cu orificiu circular, încărcat concentrat pe dreapta limită</i> , VAREHD 10. Suceava, 2000
	198.	Alaci S. , Diaconescu, E. N., <i>Determinarea stării de etnsiuni într-un semiplan cu orificiu circular, încărcat concentrat pe dreapta limită</i> , VAREHD 10. Suceava, 2000

	199.	Alaci S. , Diaconescu, E. N., <i>Considerații asupra aplicării principiului suprapunerii efectelor pentru semiplanul elastic cu orificiu circular încărcat pe dreapta limită</i> , VAREHD 10, Suceava, 2000
	200.	Irimescu, L., Alaci, S. , Diaconescu, E.N., et al., <i>L'influences des deformation elastique sur les contraintes tangentielles a l'interface d'un contact</i> , VAREHD 10, Suceava, 2000
1998	201.	Alaci, S. , <i>Problematika contactului corpurilor cu goluri și incluziuni</i> , VAREHD 9. Suceava, 1998
	202.	Alaci, S. , <i>Problematika contactului corpurilor stratificate</i> , VAREHD 9. Suceava, 1998
	203.	Alaci, S. , <i>Implicații ale mecanicii contactului în proiectarea mecanismelor cu came cu tachet de translație</i> , VAREHD 9. Suceava, 1998
	204.	Alaci, S. , <i>Implicații ale mecanicii contactului în proiectarea mecanismelor cu came cu tachet de translație cu talpă</i> , VAREHD 9. Suceava, 1998
	205.	Pătraș-Ciceu, S., Iacobescu, F., Alaci, S. , <i>Influența orientărilor catenelor moleculare asupra coeficientului de tracțiune EHD</i> , VAREHD 9. Suceava, 1998
1996	206.	Pătraș-Ciceu, S., Alaci, S. , Prodan., D., Iacobescu, F., <i>Influența microalunecărilor superficiale asupra frecării la rostogolire pură</i> , VAREHD 8. Suceava, 1996
	207.	Nestor, T., Prodan, D., Pătraș-Ciceu, S., Alaci, S. , <i>Stand pentru determinarea histerezisului static la solicitarea de contact</i> , VAREHD 8. Suceava, 1996
	208.	Nestor, T., Iacobescu, F., Patraș-Ciceu, S., Alaci, S. , <i>Metodica determinării histerezisului static la solicitarea de contact</i> , VAREHD 8. Suceava, 1996
	209.	Nestor, T., Alaci, S. , Iacobescu, F., Diaconescu, E. N., Chirică, V., <i>Rezultate preliminare privind histerezisul static la solicitarea de contact</i> . VAREHD 8. Suceava, 1996
1992	210.	Agapescu, S. D., Alaci, S. , <i>Determinarea parametrilor geometrici de bază ai mecanismelor cu camă și tachet de translație cu ajutorul calculatorului</i> , Analele Universității din Oradea, 1992, pp 41-44
1991	211.	Opaschi, D. Al., Alaci, S. , <i>Mecanism pentru prelucrarea profilelor în spirală arhimedică</i> , TEHNOMUS IV, Suceava, 1991, pp 114-117
	212.	Alaci, S. , Opaschi, D. Al., <i>O metodă de degroșarea pinioanelor cilindrice de modul mare</i> , THNOMUS IV, Suceava, 1991, pp 186-190