

INFORMAȚII PERSONALE

Dumitru Ilie



EXPERIENȚA PROFESIONALĂ

01/2018–Prezent

Consilier

Ministerul Educației Naționale, București (România) – Învățământ Superior

- Management academic

01/2008–01/2018

Prodecan la Facultatea de Mecanică

Universitatea din Craiova, Craiova (România)

- Management universitar

2012–Prezent

Membru al Senatului Universității

Universitatea din Craiova, Craiova (România)

- Management universitar

2004–Prezent

Membru al Consiliului Facultății de Mecanică

Universitatea din Craiova, Craiova (România)

- Management universitar

2017–Prezent

**Prof. univ. dr. ing. habil. la Facultatea de Mecanică –
Departamentul Autovehicule, Transporturi și Inginerie Industrială**

Universitatea din Craiova, Craiova (România)

Activitate didactică desfășurată la programe de studii din domeniile:

- ingineria autovehiculelor;
- ingineria transporturilor.

Cercetare științifică pe direcțiile:

- motoare pentru autovehicule;
- mobilitate în transporturi;
- accidentologie rutieră.

Conducere de doctorat (habilitat) în domeniul:

- inginerie mecanică.

2007–2017

**Conf. univ. dr. ing. la Facultatea de Mecanică - Departamentul Autovehicule,
Transporturi și Inginerie Industrială**

Universitatea din Craiova, Craiova (România)

Activitate didactică desfășurată la programe de studii din domeniile:

- ingineria autovehiculelor;

- ingineria transporturilor.

Cercetare științifică pe direcțiile:

- motoare pentru autovehicule;
- proiectarea fluxurilor de circulație rutiera, logistică urbană;
- reconstrucția accidentului de circulație rutieră.

2001–2007 Șef lucrări universitar la Facultatea de Mecanica - Departamentul Autovehicule Rutiere, Mașini și Instalații Agricole

Universitatea din Craiova, Craiova (România)

Activitate didactică desfășurată la programele de studii :

- autovehicule rutiere;
- mașini și instalații pentru agricultură și industria alimentară;

Cercetare științifică pe direcțiile:

- motoare cu ardere internă;
- terotehnica și fiabilitatea autovehiculelor rutiere;
- trafic rutier și siguranța circulației.

1998–2001 Asistent universitar la Facultatea de Mecanica - Catedra Autovehicule Rutiere, Mașini și Instalații Agricole

Universitatea din Craiova, Craiova (România)

Activitate didactică desfășurată la programele de studii :

- autovehicule rutiere;
- mașini și instalații pentru agricultură și industria alimentară.

Cercetare științifică pe direcțiile:

- terotehnica și fiabilitatea autovehiculelor rutiere;
- dinamica tractoarelor, automobilelor și sistemelor de propulsie;
- tractoare, automobile și sisteme de propulsie.

2016–Prezent Responsabil program de studii de licență

Universitatea din Craiova

Coordonare activități la programul de studii de licență Autovehicule Rutiere

2008–2016 Responsabil program de studii de licență

Universitatea din Craiova

Coordonare activități la programul de studii de licență Ingineria Transporturilor și a Traficului

2013–2016 Responsabil program de studii de masterat

Universitatea din Craiova

Coordonare activități la programul de studii de masterat Automotive engineering

2009–2013 Responsabil program de studii de masterat

Universitatea din Craiova

Coordonare activități la programul de studii de masterat: Optimizarea Sistemelor de Transport Rutier

1995–1998 Inginer

D.G.A.I.A. – SECTOR MECANIC, Craiova (România)

- Coordonare reparații în sectorul autovehiculelor rutiere;
- Activitate mentenanță auto, consultanță tehnică.

1993–1995 Profesor de specialitate

Grup Scolar "Constantin Brâncuși", Craiova

- Susținere activități didactice la disciplinele: motoare, echipament electric auto și reparații auto;
- Definitivat în învățământ (Universitatea Politehnica București)

EDUCAȚIE ȘI FORMARE

2016 Atestat de abilitare în domeniul de studii universitare de doctorat în Inginerie Mecanică

Universitatea din Craiova, Craiova (România)

1998–2004 Doctor în Științe Ingineresti – Inginerie Mecanică

Universitatea „Transilvania” din Brașov, Facultatea de Inginerie Mecanică, Brașov (România)

1993–1998 Inginer - Autovehicule Rutiere

Universitatea din Craiova, Craiova (România)

1987–1992 Inginer mecanic - Specializarea Mecanică Agricolă

Universitatea Politehnica din Timisoara (fostul Institut Politehnic "Traian Vuia"), Timisoara (România)

1986–1986

Scoala de ofiteri în rezervă - arma tancuri, Lipova

1982–1986

Colegiul național "Gib Mihaescu", Dragasani

Specializarea matematică - fizică

COMPETENȚE PERSONALE

Limba(i) maternă(e) română

Alte limbi străine cunoscute

| | ÎNȚELEGERE | | VORBIRE | | SCRIERE |
|----------|------------|--------|----------------------------|--------------|---------|
| | Ascultare | Citire | Participare la conversație | Discurs oral | |
| engleză | B2 | B2 | B2 | B2 | B1 |
| franceză | B2 | C1 | B2 | B2 | C1 |

Niveluri: A1 și A2: Utilizator elementar - B1 și B2: Utilizator independent - C1 și C2: Utilizator experimentat

Cadrul european comun de referință pentru limbi străine

Competențe de comunicare

- Spirit de echipă;
- Capacitate de adaptare la medii multiculturale;
- Capacitate de comunicare.

Competențe organizaționale/manageriale

- Leadership;
- Experiență a managementului de proiect și al echipei
- Spirit organizatoric (experiență în logistică)

Competențe dobândite la locul de muncă

- Managementul proiectelor;
- Formare antreprenorială, marketing;
- Transfer tehnologic și inovare;
- Expert tehnic judiciar, specialitatea Autovehicule, Circulație Rutieră în cadrul Ministerului Justiției;
- Profesor de legislație rutieră
- Formare formatori pe teme de siguranță rutieră;
- Pedagogie și metodică;
- Consultanță antreprenorială.

Competențele digitale

| AUTOEVALUARE | | | | |
|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Procesarea informației | Comunicare | Creare de conținut | Securitate | Rezolvarea de probleme |
| Utilizator independent | Utilizator experimentat | Utilizator experimentat | Utilizator experimentat | Utilizator experimentat |

Competențele digitale - Grilă de auto-evaluare

- Utilizarea tehnicii de calcul cu structură distributivă;
- Certificate of completion of Solid Works 2006, Training course - Solid Works Authorized Training, Testing & Support Center
- Certificate of completion of COSMOSWorks Desinger 2006, Training course - Solid Works Authorized Training, Testing & Support Center
- Analist programator: - curs postuniversitar organizat de Ministerul Învățământului prin Comisia Națională de Informatică

Alte competențe**Domenii de competență:**

- motoare pentru autovehicule;
- proiectarea și modelarea fluxurilor de circulație;
- logistică urbană;
- analiza și reconstrucția accidentelor de circulație.

Permis de conducere

B, C

INFORMAȚII SUPLIMENTARE**Publicații**

- 19 MONOGRAFII, CARTI, MANUALE ȘI ÎNDRUMARE DE APLICAȚII

- 84 ARTICOLE ȘTIINȚIFICE COTATE ISI SAU BDI
- Articole la Congrese și Conferințe Internaționale publicate în proceedings
(AMMA 2018, CAR 2017, ICOME 2017, CONAT 2016, XII Conference on Transport Engineering-Valencia 2015, ESFA 2015, ICOME 2015, SMAT2014, AMMA 2013, MVT 2012, CAR2011, CONAT 2010, ICOME 2010, DAMM 2009 Viena, ESFA 2009 Belgrad, OPTIROB 2009, SMAT 2008, AMMA 2007, CONAT 2006, EAEC Beograd 2005 etc.)
- Articole în Reviste de specialitate internaționale și naționale;
- Articole la Simpozioane științifice naționale;
- 62 ARTICOLE ȘTIINȚIFICE PUBLICE ÎN VOLUMELE UNOR MANIFESTARI ȘTIINȚIFICE(Conferințe, Simpozioane etc), RESPECTIV ÎN REVISTE DE SPECIALITATE

Colaborări instituționale, formare profesională și schimb de experiență

- Universitat Politehnica de Valencia; Universida de Tecnica de Lisboa; Universita degli Studi di Firenze; ISAT - Nevers, Universite de Bourgogne, Dijon; Fondazione per Ricerca et Tehnologica Firenze; Instituto Superior Tecnico (Universida de Tecnica de Lisboa); Université Paris1 Panthéon-Sorbonne / Paris, Centre international d'études pédagogiques (CIEP) / Sevres, Université Paris1 Panthéon-Sorbonne / Paris etc.

Dezvoltarea de relații instituționale cu agenți economici privind desfășurarea practicii studenților și activități aplicative

IPA Craiova, RAT Craiova, CADWORKS Craiova, CFR Regionala Craiova, POPECI MOTORS Service, AUTOCLASS Service, Registrul Auto Român etc.

Afilieri la organizații profesionale

- Societatea Inginerilor de Automobile din România;
- Society of Automotive Engineers International;
- EuroAgEng (The European Society of Agriculture Engineers)
- Societatea Inginerilor Mecanici Agricoli din România;
- Asociația Generală a Inginerilor din România;
- Asociația de Cercetare Multidisciplinară Vest România.
- Asociația Română de Tribologie

Prof. univ. dr. ing. habil. Ilie DUMITRU

LISTA LUCRARI

Teza de abilitare

„Modelari functionale ale mișcării autovehiculelor în vederea reducerii consumului de combustibil și a poluării chimice ale motoarelor cu ardere internă”

A. Teza de doctorat

„Cercetări teoretice și experimentale privind optimizarea consumului de combustibil al motoarelor de tractor prin utilizarea sistemelor informaționale de bord”,

Conducător științific Prof. univ. dr. ing. Simion Popescu, Facultatea de Mecanică, Universitatea „Transilvania” din Brasov

ARTICOLE INDEXATE I.S.I. SAU B.D.I.

- 1 Ionuț Daniel Geonea, Nicolae Dumitru, Cristian Copiluși, **Ilie DUMITRU**, Oana Victoria Oță, Dragoș Tutunea - Theoretical and experimental analysis for the load capacity of the cone tightening assemble, 4th International Congress of Automotive and Transport Engineering, AMMA 2018, Proceedings in Automotive Engineering, ISBN 978-3-319-94408-1, Springer International Publishing House, pp. 437-445, 2018; <https://www.springerprofessional.de/theoretical-and-experimental-analysis-for-the-load-capacity-of-t/16162844> ;
- 2 Dragoș Tutunea, **Ilie DUMITRU**, Laurențiu Racilă, Oana Victoria Oță, Lucian Matei, Ionuț Daniel Geonea - Characterization of sunflower oil biodiesel as alternative for diesel fuel, 4th International Congress of Automotive and Transport Engineering, AMMA 2018, Proceedings in Automotive Engineering, ISBN 978-3-319-94408-1, Springer International Publishing House, pp. 172-180, 2018; <https://www.springerprofessional.de/characterization-of-sunflower-oil-biodiesel-as-alternative-for-d/16162774> ;
- 3 Cristiana Sirbu, **Ilie DUMITRU**, Laurențiu Racilă, Oana Victoria Oță, Theodor Oprica, Studies on Optimization Connection and Intermodal Capacities in TNT Transport Corridors, AMMA 2018: 4th International Congress of Automotive and Transport Engineering “Automobiles, Mobility, and Alternative Solutions”: selection of papers, pp. 237 – 244, Editura U.T.Press, ISBN 978-606-737-314-1, Cluj-Napoca, 2018;
- 4 Lucian Matei, **Ilie DUMITRU**, Alexandru Oprica, Laurentiu Racila, Bogdan Florescu, Alexandru, Dima, Mihaela Racila - Studies on determining the dynamics of public transport based on interdependent passengers – reconfiguration, MMA 2018: the 4th International Congress of Automotive and Transport Engineering “Automobiles, Mobility, and Alternative Solutions”: selection of papers, pp. 229 – 236, Editura U.T.Press, ISBN 978-606-737-314-1, Cluj-Napoca, 2018 ;
- 5 Oță Oana, Dumitru Nicolae, **DUMITRU Ilie** - Dynamic models to analyse the influence of the seat belt in a frontal collision, CAR 2017 International Congress of Automotive and Transport Engineering - Mobility Engineering and Environment, 8–10 November 2017, Pitesti, Romania, Published as volume 252, 2017 of IOP Conference Series: Materials Science and Engineering 2017, IOP Conf. Ser.: Mater. Sci. Eng. 252 012017, UNSP 012017, DOI: 10.1088/1757-899X/252/1/012017, ISSN: 1757-8981, https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=5&SID=E4V8HibjQGEVoSBAYjN&page=1&doc=2
- 6 Geonea, Ionut , Dumitru, Nicolae **DUMITRU Ilie** - Experimental and theoretical study of friction torque from radial ball bearings, CAR 2017 International Congress of Automotive and Transport Engineering - Mobility Engineering and Environment, 8–10 November 2017, Pitesti, Romania, Published as volume 252, 2017 of IOP Conference Series: Materials Science and Engineering 2017, IOP Conf. Ser.: Mater. Sci. Eng. 252 012048, UNSP 012048, DOI: 10.1088/1757-899X/252/1/012048, ISSN: 1757-8981, https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=E4V8HibjQGEVoSBAYjN&page=1&doc=1#addressWOS:000419817200048-1

- 7 Dragos Tutunea, **DUMITRU Ilie** - Analysis of performance and emissions of diesel engine using sunflower biodiesel, CAR 2017 International Congress of Automotive and Transport Engineering - Mobility Engineering and Environment, 8–10 November 2017, Pitesti, Romania, Published as volume 252, 2017 of IOP Conference Series: Materials Science and Engineering 2017, IOP Conf. Ser.: Mater. Sci. Eng. 252 012085, UNSP 012085, DOI: 10.1088/1757-899X/252/1/012085, ISSN: 1757-8981, https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=E4V8HibjQGEVoSBAYjN&page=1&doc=2
- 8 Dima Alexandru, **DUMITRU Ilie**, Tutunea Dragos - Evaluation of performance and emissions characteristics of methanol blend (gasohol) in a naturally aspirated spark ignition engine, CAR 2017 International Congress of Automotive and Transport Engineering - Mobility Engineering and Environment, 8–10 November 2017, Pitesti, Romania, Published as volume 252, 2017 of IOP Conference Series: Materials Science and Engineering 2017, IOP Conf. Ser.: Mater. Sci. Eng. 252 012086, UNSP 012086, DOI: 10.1088/1757-899X/252/1/012086, ISSN: 1757-8981, https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=5&SID=E4V8HibjQGEVoSBAYjN&page=1&doc=1
- 9 Matei Lucian, Racilă Mihaela, Oprica Alexandru, Dumitru Neagoe, **DUMITRU Ilie**, Racilă Laurențiu - Mathematical method for studying passenger flows in Craiova Municipality public transport system, CAR2017 International Congress of Automotive and Transport Engineering - Mobility Engineering and Environment, CAR 2017_021, 8–10 November 2017, Pitesti, Romania; <https://doi.org/10.26825/bup.ar.2017.001>;
- 10 DIMA Alexandru, OPRICA Alexandru, NICU Ana-Maria, STAIKU Diana-Camelia, **DUMITRU Ilie**, Simulation of air in the intake manifold flap of an internal combustion engine, 4th International Conference of Mechanical Engineering-ICOME 2017, 11-12 October 2017, published by TTP inc in Applied Mechanics and Materials, <https://doi.org/10.4028/www.scientific.net/AMM.880.189>
- 11 TUTUNEA Dragos, OPRICA Alexandru, NICU Ana-Maria, STAIKU Diana-Camelia, **DUMITRU Ilie**, CFD and structural analysis of the intake manifold flap of an internal combustion engine, 4th International Conference of Mechanical Engineering-ICOME 2017, 11-12 October 2017, published by TTP inc in Applied Mechanics and Materials, <https://doi.org/10.4028/www.scientific.net/AMM.880.195>
- 12 TUTUNEA Dragos, GHERGHINA George, **DUMITRU Ilie**, DIMA Alexandru, Evaluation of thermistors used for temperature measurement in automotive industry, 4th International Conference of Mechanical Engineering-ICOME 2017, 11-12 October 2017, published by TTP inc in Applied Mechanics and Materials, <https://doi.org/10.4028/www.scientific.net/AMM.880.157>
- 13 PASCU Cristina Ileana, **DUMITRU Ilie**, GHEORGHE Stefan, NISIPASU Mihai, Implementation of Total Productive Maintenance Principles for Quality Improvement in an Automotive Company, 4th International Conference of Mechanical Engineering-ICOME 2017, 11-12 October 2017, published by TTP inc in Applied Mechanics and Materials, <https://doi.org/10.4028/www.scientific.net/AMM.880.171>
- 14 OȚĂT Oana, **DUMITRU Ilie**, OȚĂT Victor, MATEI Lucian, Modeling the vehicle – bicycle collision. The analysis of the projection distance and acceleration at the cyclist's head, 4th International Conference of Mechanical Engineering-ICOME 2017, 11-12 October 2017, published by TTP inc in Applied Mechanics and Materials, <https://doi.org/10.4028/www.scientific.net/AMM.880.177>
- 15 MATEI Lucian, **DUMITRU Ilie**, RACILA Laurentiu OPRICA Theodor, Smart Signalization and Public Transport Priority, a First Step to Smart Mobility in a Smart City, 4th International Conference of Mechanical Engineering-ICOME 2017, 11-12 October 2017, published by TTP inc in Applied Mechanics and Materials, <https://doi.org/10.4028/www.scientific.net/AMM.880.383>
- 16 Matei, L., **Dumitru, I.**, Racila, L., Mathematical Algorithm for Calculating the Total Traffic Lights Cycle in Junctions, CONAT 2016 International Congress of Automotive and Transport Engineering, pp. 702-709, Springer International Publishing Switzerland 2017, ISBN 978-3-319-45446-7, ISBN 978-3-319-45447-4 (eBook), DOI 10.1007/978-3-319-45447-4; <http://www.springer.com/gp/book/9783319454467>

- 17 Otat, Oana Victoria, Dumitru, N., Otat, V., **Dumitru, I.**, Determination of Kinematic and Dynamic Behavior in the Driver's Skull upon the Impact with the Steering Wheel, CONAT 2016 International Congress of Automotive and Transport Engineering, pp. 812-819, Springer International Publishing Switzerland 2017, ISBN 978-3-319-45446-7, ISBN 978-3-319-45447-4 (eBook), DOI 10.1007/978-3-319-45447-4; <http://www.springer.com/gp/book/9783319454467>;
- 18 **Dumitru, I.**, Racila, L., Tutunea, D., Matei, L., Dima, Al., Oprica, Al., Experimental Investigation of a Vehicle Behavior Using Different Complex Data Acquisition Systems, CONAT 2016 International Congress of Automotive and Transport Engineering, pp. 136-143, Springer International Publishing Switzerland 2017, ISBN 978-3-319-45446-7, ISBN 978-3-319-45447-4 (eBook), DOI 10.1007/978-3-319-45447-4; <http://www.springer.com/gp/book/9783319454467>
- 19 **Dumitru, I.**, Dumitru, N., Matei, L. Racila L., Saturation flow mathematical model based on multiple combinations of lane groups, Transportation Research Procedia Volume 18, 2016, Pages 399–404, Efficient, Safe and Intelligent Transport. Selected papers from the XII Conference on Transport Engineering, Valencia (Spain) 7-9 June, DOI: <http://dx.doi.org/10.4995/CIT2016.2016.4254>, Elsevier, ISSN: 2352-1465, <http://www.sciencedirect.com/science/article/pii/S2352146516308079>
- 20 **Dumitru, I.**, Dumitru, N., Matei, L. Racila L., Public transport traffic management systems simulation in Craiova city, *Transportation Research Procedia*, Volume 18, 2016, Pages 405–410, Efficient, Safe and Intelligent Transport. Selected papers from the XII Conference on Transport Engineering, Valencia (Spain) 7-9 June, DOI: <http://dx.doi.org/10.4995/CIT2016.2016.4255>, Elsevier, ISSN: 2352-1465, <http://www.sciencedirect.com/science/article/pii/S2352146516308080>
- 21 L. Vlăduțoiu, V. Vlăduț, S. Biris, **I. Dumitru**, I. Kiss, Determination of soil resistance related to wear of a chisel share, 44th International Symposium "Actual Tasks on Agricultural Engineering", 23rd – 26th February 2016, Grand hotel "Adriatic" Opatija, Croatia, <http://atae.agr.hr/Symposium-Programme-ATAE-2016.pdf> ; <https://www.researchgate.net/publication/304990521>
- 22 **Dumitru I.**, Matei L., Vinatoru M., Racila L., Oprica Th., Aspects Regarding Priority Settings in Unsignalized Intersections and the Influence on the Level of Service, Proceedings of the European Automotive, Congress EAEC-ESFA 2015, ISBN 978-3-319-27275-7 ISBN 978-3-319-27276-4 (eBook), DOI 10.1007/978-3-319-27276-4, Springer International Publishing Switzerland 2016, <http://link.springer.com/chapter/10.1007%2F978-3-319-27276-463>
- 23 **Dumitru, I.**, Matei, L., Vinatoru, M., Racila, L., Level of Service Calculation for Four – Leg With Different Types of Priorities, Current Solutions in Mechanical Engineering – Selected, peer reviewed papers from International Conference of Mechanical Engineering – ICOME 2015, pp. 193-198, Volume 823 of Applied Mechanics and Materials, ISSN print 1660-9336, ISSN cd 1660-9336, ISSN web 1662-7482, <https://doi.org/10.4028/www.scientific.net/AMM.823.193>;
- 24 Tutunea D., Bica, M., **Dumitru, I.**, Dima, Al., Study of a Mono Cylindrical Diesel Engine Fueled with biodiesel of palm oil, Current Solutions in Mechanical Engineering – Selected, peer reviewed papers from International Conference of Mechanical Engineering – ICOME 2015, pp 297-302, Volume 823 of Applied Mechanics and Materials, ISSN print 1660-9336, ISSN cd 1660-9336, ISSN web 1662-7482, <https://doi.org/10.4028/www.scientific.net/AMM.823.297>;
- 25 **Dumitru, I.**, Colici, F., Dima Al., Mardarescu, V., Studies regarding the evolution of pollutant emissions related to certain transitory condition of a internal combustion engine using mobile measuring systems, Current Solutions in Mechanical Engineering – Selected, peer reviewed papers from International Conference of Mechanical Engineering – ICOME 2015, pp 303-308, Volume 823 of Applied Mechanics and Materials, ISSN print 1660-9336, ISSN cd 1660-9336, ISSN web 1662-7482, <https://doi.org/10.4028/www.scientific.net/AMM.823.303>;
- 26 Pascu, Ileana, Gheorghe St., **Dumitru I.**, Nicolicescu C., Aspects about Sintering Behaviour of a Titanium Hydride Powder based Alloy used for Automotive Components, Current Solutions in Mechanical Engineering – Selected, peer reviewed papers from International Conference of Mechanical Engineering – ICOME 2015, pp 467- 472, Volume 823 of Applied Mechanics and Materials, ISSN print 1660-9336, ISSN cd 1660-9336, ISSN web 1662-7482, <https://doi.org/10.4028/www.scientific.net/AMM.823.467>;
- 27 Racila, I., **Dumitru, I.**, Geonea, I., Car Jack Based on Overconstrained Mechanism, Automotive and Transportation Engineering – Selected, peer reviewed papers from International Congress Science

- and Management of Automotive and Transportation Engineering – SMAT 2014, pp 12-17, Volume 822 of Applied Mechanics and Materials, ISSN print 1660-9336, ISSN cd 1660-9336, ISSN web 1662-7482, <https://doi.org/10.4028/www.scientific.net/AMM.822.12>,
- 28 Pascu, Ileana, Gheorghe St., **Dumitru I.**, Nisipasu M., Ciocoi-Troaca D., Aspects about Implementation of Lean Manufacturing Principles for Quality Improvement in a Production System for Automotive Industry, Current Solutions in Mechanical Engineering – Selected, peer reviewed papers from International Conference of Mechanical Engineering – ICOME 2015, pp. 283-288, Volume 823 of Applied Mechanics and Materials, ISSN print 1660-9336, ISSN cd 1660-9336, ISSN web 1662-7482, <https://doi.org/10.4028/www.scientific.net/AMM.823.283> ;
 - 29 Geonea I., Romanescu, A., Racila, L., **Dumitru, I.**, Design of a Transmission for Wheelchairs Intended to Humans with Locomotors Disabilities, Automotive and Transportation Engineering – Selected, peer reviewed papers from International Congress Science and Management of Automotive and Transportation Engineering – SMAT 2014, pp 60-67p, Volume 822 of Applied Mechanics and Materials, ISSN print 1660-9336, ISSN cd 1660-9336, ISSN web 1662-7482, <https://doi.org/10.4028/www.scientific.net/AMM.822.60>
 - 30 **Dumitru, I.**, Vinatoru, M., Tutunea D, Dima, Al., Considerations regarding validation through simulation of some board system information's for powertrain performance optimization, Automotive and Transportation Engineering – Selected, peer reviewed papers from International Congress Science and Management of Automotive and Transportation Engineering – SMAT 2014, pp 346-353, Volume 822 of Applied Mechanics and Materials, ISSN print 1660-9336, ISSN cd 1660-9336, ISSN web 1662-7482, <https://doi.org/10.4028/www.scientific.net/AMM.822.346>
 - 31 **Dumitru, I.**, Racila, L., Matei., L., Oprica, Al., Valeanu, V., Aspects of Functional Optimization and Performance Evaluation Using an Experimental Programmable Engine Control Unit, Automotive and Transportation Engineering – Selected, peer reviewed papers from International Congress Science and Management of Automotive and Transportation Engineering – SMAT 2014, , pp 365-372, Volume 822 of Applied Mechanics and Materials, ISSN print 1660-9336, ISSN cd 1660-9336, ISSN web 1662-7482, <https://doi.org/10.4028/www.scientific.net/AMM.822.365>
 - 32 Geonea I., Romanescu, A., Racila, L., **Dumitru, I.**, Design of a Wheelchairs Intended to Humans with Locomotors Disabilities, Automotive and Transportation Engineering – Selected, peer reviewed papers from International Congress Science and Management of Automotive and Transportation Engineering – SMAT 2014, pp 293-298, Volume 822 of Applied Mechanics and Materials, ISSN print 1660-9336, ISSN cd 1660-9336, ISSN web 1662-7482, <https://doi.org/10.4028/www.scientific.net/AMM.822.293>;
 - 33 Matei, L., **Dumitru I.**, Racilă, L., Vinatoru, M., Adaptive traffic signal control on a national road intersection, Automotive and Transportation Engineering – Selected, peer reviewed papers from International Congress Science and Management of Automotive and Transportation Engineering – SMAT 2014, pp 455-460, Volume 822 of Applied Mechanics and Materials, ISSN print 1660-9336, ISSN cd 1660-9336, ISSN web 1662-7482, <https://doi.org/10.4028/www.scientific.net/AMM.822.455>;
 - 34 Oprica, Th., **Dumitru I.**, Vinătoru, M., Studies regarding semaphoring effective ness in over saturated intersections, Automotive and Transportation Engineering – Selected, peer reviewed papers from International Congress Science and Management of Automotive and Transportation Engineering – SMAT 2014, pp 491-496, Volume 822 of Applied Mechanics and Materials, ISSN print 1660-9336, ISSN cd 1660-9336, ISSN web 1662-7482, <https://doi.org/10.4028/www.scientific.net/AMM.822.491>;
 - 35 Mircea I.D., David L., **Dumitru I.**, Vlăduț V., Marin E., Popa L., Ștefan V., Fodorean G, Considerations Regarding The Current State Of Coupling Devices Existing On The Agricultural Tractors, ISB-INMA TEH' International Symposium, 30th of October - 1st of November, 2015, Bucuresti, http://isb.pub.ro/isbinmateh/2015/Volume_Symposium_2015.pdf, <http://www.cabdirect.org/abstracts/20163005485.html;jsessionid=3FD9BE179C8F479BBBE26BAD0F31D471>

- 36 V. Vlăduț, N. Herişanu, **I. Dumitru**, I. Voicea, S. Biris, D. Păunescu, I, "The Influence of the Working Regime of Oscillations Produced by an Electrovibrator on the Sorting of Materials", Applied Mechanics and Materials, Vol. 801, pp. 197-201, 2015, <http://www.scientific.net/AMM.801.197>
<https://www.researchgate.net/publication/280877321> The Influence Of The Working Regime Of Oscillations Produced By An Electrovibrator On The Sorting Of Materials,
<http://atae.agr.hr/proceedings.htm>
- 37 D. Mircea, L. David, V. Vladut, , **I. Dumitru**, S. Boruz, Considerations Regarding The Conditions Of Using Tractor-Trailer Coupling Devices, Annals of the University of Craiova - Agriculture, Montanology, Cadastre Series - Vol. XLV 2015, <http://anale.agro-craiova.ro/index.php/aamc/article/view/287/276>
- 38 C. Persu, M. Matache, V. Vladut, **I. Dumitru**, S. Boruz, C. Mircea, Testing Of Protective Structures Of Operators In An Overturning Incident, Annals of the University of Craiova - Agriculture, Montanology, Cadastre Series - Vol. XLV 2015, <http://anale.agro-craiova.ro/index.php/aamc/article/view/292/281>
- 39 L. Vladutoiu, V. Vladut, M. Matache, **I. Dumitru**, Determining The Wear Of Active Organs For Processing Soil Depending On The Working Depth, Annals of the University of Craiova - Agriculture, Montanology, Cadastre Series - Vol. XLV 2015, <http://anale.agro-craiova.ro/index.php/aamc/article/view/306/295>
- 40 **Dumitru Ilie**; Popescu Simion; Tutunea Dragoș; Studies for development a research methodology for efficient determination of load factor at a diesel engine, Congress AMMA 2013 - Automotive Motor Mobility Ambient, 17-19 october, Cluj – Napoca, AMMA 2013_106, ACTA TECHNICA NAPOCENSIS, <http://cpaddd.utcluj.ro/revista/welcome.html>,
<http://amma2013.utcluj.ro/images/program.pdf>
- 41 Tutunea Dragoș; Bica Marin; **Dumitru Ilie**; Researches on the pollutant emissions of biodiesel blends, Congress AMMA 2013 - Automotive Motor Mobility Ambient, 17-19 october, Cluj – Napoca, AMMA 2013_601, ACTA TECHNICA NAPOCENSIS, <http://cpaddd.utcluj.ro/revista/welcome.html>,
<http://amma2013.utcluj.ro/images/program.pdf>
- 42 Matei Lucian; **Dumitru Ilie**; Vinatoru Matei; Plesea Laurențiu, The role of modeling and simulation of traffic conditions in public transport management systems case study Craiova, Congress AMMA 2013 - Automotive Motor Mobility Ambient, 17-19 october, Cluj–Napoca, AMMA2013_403
<http://www.fisita.com/events/diary?id=704>, <http://amma2013.utcluj.ro/images/program.pdf>
- 43 Oțăt Oana Victoria; **Dumitru Ilie**; OȚĂT Victor; MATEI Lucian, The role of info-mobility systems in optimizing the public transport. Case study Craiova, Congress AMMA 2013 - Automotive Motor Mobility Ambient, 17-19 october, Cluj – Napoca, AMMA2013_402, ACTA TECHNICA NAPOCENSIS, <http://cpaddd.utcluj.ro/revista/welcome.html>, <http://amma2013.utcluj.ro/images/program.pdf>
- 44 **Dumitru, I.**, Bogdan, I., Cătăneanu, M., Oprica, Al., Using Type Identification Systems to Test the Mathematical Model for the Economic Pole of a Diesel Engine, International Conference Motor Vehicle & Transportation - MVT 2012, , ISBN: 978-973-638-524-7, Editura Orizonturi Universitare, 7-9 November 2012, Timisoara, <http://annals.fih.upt.ro/pdf-full/2013/ANNALS-2013-3-20.pdf>,
<http://connection.ebscohost.com/c/articles/90580827/using-type-identification-systems-test-mathematical-model-economic-pole-diesel-engine>
- 45 **Dumitru, I.** Oprica, Th., Matei, L., Utilization of traffic simulation programs in the creation of road traffic strategies in order to reduce pollution, revista Ingineria Automobilului, septembrie, p. 21 – 24, 2012;
http://siar.ro/wp-content/uploads/2014/02/RIA_24.pdf, <http://www.ingineria-automobilului.ro/reviste.php>
- 46 Popa Gh., Constantinescu A., **Dumitru I.**, Calculation of drive performance for U 650 tractor equipped with supplementary hydrostatic transmissions, Journal INMATEH, Issue 1, Pages 49-56, Publisher INMA, 2012,
http://www.inmateh.eu/INMATEH_I_2012/INMATEH_Agricultural_Engineering_2012_I.pdf
<http://www.scopus.com/authid/detail.uri?authorId=55258210200&eid=2-s2.0-84862637828>
- 47 Oprica T. G., **Dumitru, I.**, Vinatoru, M., Aspect regarding motor vehicles detection sensors placement in intersection for real time circulation control, CAR 2011, the 11th International Automotive

- Congress, 2-4 november, Pitesti, Romania, 2011, <http://www.fisita.com/publications/papers?id=7812>
- 48 **Dumitru I.**, Geonea, I., Aspects concerning an improved functioning of diesel engines based on a three variables equation: performance map – software – on board information system, Proceedings of the Fifth International Conference on Optimization Of The Robots And Manipulators, 28-30 May 2010, Published by Research Publishing Services, Singapore, ISBN 978-981-08-5840-7, pp. 307-311, http://rpsonline.com.sg/proceedings/9789810858407/978-981-08-5840-7_S10-9.xml
 - 49 **Dumitru I.**, Cataneanu M., Oprica Th., Otat V, Designing and testing of a gearbox control electronic system as part of electronic management system for diesel engines, The 11th International Conference on Automotive and Transport Engineering, CONAT 2010, 27-29 October Brasov, Romania, 2010; <http://www.conat.ro/conat2010/papers.jsp>, <http://www.fisita.com/publications/papers?id=7190>, <http://www.conat.ro/index.php/conat/2010/paper/view/258>
 - 50 Constantinescu A. , Neagoe D., **Dumitru I.**, Trotea M., Theoretical Research on the Dynamics of Working Parts Aggregate Combined Preparation for Germinative Bed - ACPG-3, The 11th International Congress of Automotive and Transport Engineering, CONAT 2010, 27-29 October Brasov, Romania, 2010; <http://www.fisita.com/publications/papers?id=7289>
 - 51 **Dumitru I.**, Considerations on the simulation optimization operating of the diesel engines in the economic pole, Revista Ingineria Automobilului -Society of Automotive Engineers of Romania, ISSN 1842 – 4074, Bucuresti, iunie 2010; <http://www.ingineria-automobilului.ro/images/Ingineria%20Automobilului%2015.pdf>, http://siar.ro/wp-content/uploads/2014/02/RIA_15.pdf
 - 52 **Dumitru I.**, Popescu S., Vinatoru M., Popescu T., Cataneanu M., Various aspects regarding the design of a gear shift sensor for road vehicles, International Conference of Mechanical Engineering - ICOME 2010 patronaj IFTOME, ISBN 978-606 -510 -873- 3, Editura Universitaria, tome 2, pp. 725-728, Craiova, Romania, 28-29 APRIL 2010, <http://toc.proceedings.com/11991webtoc.pdf>, <http://www.proceedings.com/11991.html>
 - 53 Neagoe D., Constantinescu A., Trotea M., **Dumitru I.**, Buculei Mihaela, Optimization solutions for the transport of persons in dolj county, International Conference of Mechanical Engineering - ICOME 2010, ISBN 978-606-510-873-3, tome 2, pp. 795-798, 28-29 APRIL 2010, Craiova, Romania, <http://toc.proceedings.com/11991webtoc.pdf>, <http://www.proceedings.com/11991.html>
 - 54 ROSCA, A[drian], S[orin]; DUMITRU, N[icolae] & **DUMITRU, Ilie**, Jigs based on hypocycloid curves for universal turning machine, The 20th International DAAAM SYMPOSIUM, "Intelligent Manufacturing & Automation: Theory, Practice & Education", 25-28th November 2009, Vienna; Austria; http://apps.webofknowledge.com/Search.do?product=UA&SID=R1HNdcYXSSiXwyKSAn&search_mode=GeneralSearch&prID=59bb4204-2575-41c0-a960-adb255b88f20
 - 55 Dumitru, N., Geonea, I., **Dumitru, I.**, Studies concerning the finite element modeling of mechanics from farming machine structure, The 8th International Conference, FUEL ECONOMY, SAFETY and RELIABILITY of MOTOR VEHICLES, November 12-14, 2009, Bucuresti , Romania, www.fisita.com; <http://www.gbv.de/dms/tib-ub-hannover/627016561.pdf>
 - 56 Carstea, I., **Dumitru, I.**, Numerical simulation of the vehicle electromagnetic brake, Proceedings of the 10th WSEAS International Conference on Mathematical and computational science and engineering, Pts I and II Bucharest, Romania, 2008; Publisher World Scientific and Engineering Acad and Soc, Athens Greece <http://portal.acm.org/citation.cfm?id=1569613>
 - 57 Otat, V., Bolcu D., Stanescu M. M., **Dumitru I.**, Neagoe D. Consideration on the Distribution of the Vertical Forces at the Motor Vehicle's in Circular Motion, SMAT 2008 - International Congress Automotive, Safety And Environment, ISBN 978-606-510, 23-25 October, <http://www.fisita.com/publications/papers?id=6300>
 - 58 Popescu T., **Dumitru, I.**, Otat, V., Popa Gh., Researches regarding methods of applying thermo chemical treatments to iron-made sintered parts ronde type, SMAT 2008 - International Congress

- Automotive, Safety And Environment*, ISBN 978-606-510, 23-25 October, 2008, Craiova, Romania, <http://www.fisita.com/publications/papers?id=6354>
- 59 Rosca, Adrian, **Dumitru, Ilie**, CAD-FEA development based on arx library, SMAT 2008 - International Congress Automotive, Safety And Environment, ISBN 978-606-510, 23-25 October, 2008, Craiova, Romania, <http://www.fisita.com/publications/papers?id=6372>
 - 60 Oprica Th., G., Popescu, T., **Dumitru, I.**, The application of system's identification type method in designing, realization and validation of mathematical models for traffic sequences optimization, SMAT 2008 - International Congress Automotive, Safety And Environment, ISBN 978-606-510, 23-25 October, 2008, Craiova, Romania; <http://www.fisita.com/publications/papers?id=6391>
 - 61 **Dumitru I.**, Rosca A., Cataneanu M., Popa Gh., Mecatronics system for the evaluation of energetical parameters of internal combustion engine, SMAT 2008 - International Congress Automotive, Safety And Environment, ISBN 978-606-510, 23-25 October, 2008, Craiova, Romania; <http://www.fisita.com/publications/papers?id=6344>
 - 62 Bolcu Dumitru, **Ilie Dumitru**, Victor Oțăt, Theodor George Oprica, Abordari ale sigurantei traficului rutier din perspectiva studiilor vibratiilor vehiculelor, SIMPOZIONUL STIINTIFIC AL INGINERILOR ROMANI DE PRETUTINDENI, editia a VIII-a, SINGRO 2008: Bucuresti, 11-12 septembrie 2008, http://www.buletinulagir.agir.ro/numar_revista.php?id=28, <http://www.agir.ro/buletine/513.pdf>
 - 63 **Ilie Dumitru**, Victor Otat, Mihnea Cataneanu, Theodor George Oprica, Using "type identification system" method in designing, developing and validating mathematical models to optimize traffic sequencing, SIMPOZIONUL STIINTIFIC AL INGINERILOR ROMANI DE PRETUTINDENI, editia a VIII-a, SINGRO 2008: 11-12 septembrie 2008; http://www.buletinulagir.agir.ro/numar_revista.php?id=28, <http://www.agir.ro/buletine/516.pdf>
 - 64 **Dumitru, I.**, Bolcu, D., Cataneanu, M., Ungureanu, C.A., Popa, Gh., The use of polynomial in order to obtain izoconsumption curves for Diesel engines with mechanical injection, The International Congress of Automobile, Environment and Farm Machinery, ISSN 1221-5872, pp. 273-276, 11-13 October, Cluj-Napoca, 2007, ACTA TECHNICA NAPOCENSIS, www.fisita.com; http://detect.east.utcluj.ro/atna_mam/id28.htm
 - 65 Dumitru Bolcu, Mihaela Bogdan, Gheorghe Popa, **Ilie Dumitru**, Effects of the additional weight concerning the distribution of the vertical forces at the vehicle's wheels, The International Congress of Automobile -FISITA, Environment and Farm Machinery, ISSN 1221-5872, 11-13 October, Cluj-Napoca, 2007, ACTA TECHNICA NAPOCENSIS, www.fisita.com; http://detect.east.utcluj.ro/atna_mam/id28.htm
 - 66 Bolcu, D., Bogdan, Mihaela, Popa, Gh., **Dumitru, I.** NEAGOE D., Consideration on the distribution of the vertical forces at the motor vehicle's non steady motion, The International Congress of Automobile-FISITA, Environment and Farm Machinery, ISSN 1221-5872, 11-13 October, Cluj-Napoca, 2007, ACTA TECHNICA NAPOCENSIS, www.fisita.com; http://detect.east.utcluj.ro/atna_mam/id28.htm, <http://journals.indexcopernicus.com/ACTA+TECHNICA+NAPOCENSIS+SERIES:+APPLIED+MATHEMATICS,+MECHANICS,+AND+ENGINEERING,p3528,3.html>
 - 67 Gheorghe Boiangiu, Theodor George Oprica, Cosmin Berceanu, **Ilie Dumitru**, A comparative study of two different ways of designing a piston for an internal combustion engine-by classic methods and by using SolidWorks program, The Scientific Conference with International Participation DA-FA, University of Craiova, 2007; http://cis01.central.ucv.ro/analele_universitatii/agricultura/2007/anale_2007.pdf, <http://www.journals4free.com/?fq=class:agr&fq=spec:agric&fq=language:eng&p=2>
 - 68 **Dumitru, I.**, Otat V., Cataneanu, M., Popa, Gh., Working out the mathematical models useful to obtain the optimum working curve for a 45 HP Diesel engine, The 1st International Conference on Motor Vehicle, and Transportation MVT 2006- FISITA, ISBN-10: 973 – 638 –284-0, 15-17th, pp.73-77, Timisoara, Romania, 2006, <http://www.fisita.com/publications/papers?id=5456>
 - 69 Constantinescu, A., Popa, Gh, **Dumitru, I.**, – The energetic analyse of the system tractor agriculture machine used for the preparation of the soil for sowing, The 1st International Conference on Motor

- Vehicle, and Transportation MVT 2006 -FISITA, ISBN-10: 973 – 638 – 284 - 0, 15-17th, pp. 45-49, Timisoara, Romania, 2006; <http://www.fisita.com/publications/papers?id=5494>
- 70 Popescu, S., **Dumitru, I.**, Boruz, S., Kiernicki, Z., Elaboration the mathematical models to obtain the optimum performace of the agricultural tractor engine, TEKA Kom. Mot. Energ. Roln., 6, pp.117–122, 2006 ISBN: 978-84-615-6648-8, ISSN 1641-7739, <http://www.pan-ol.lublin.pl/wydawnictwa/TMot6/Popescu.pdf>, <http://www.pan-ol.lublin.pl/english /teka-motrol eng/TMot6 2006.html>, [Citare in http://www.icrepq.com/icrepq'12/762-corredor.pdf](http://www.icrepq.com/icrepq'12/762-corredor.pdf).
- 71 Boruz Sorin, Mircea Bădescu, **Dumitru Ilie**, Cristian Vasile - Research into the variation of the kinematics index, of the advance and the relative advance depending on the displacement speed for the agrimotor- working soil on the row of trees tillage cutter technical system, Research Journal of Agricultural Science, 41 (2), 2009, ISSN 2066-1843, <http://usab-tm.ro/USAMVBT Pagina ro 97.html>, <http://www.rjas.ro/>
- 72 **Dumitru, I.**, Popa, Gh., Cataneanu, M., Researches concerning the influence of functional, constructive and working parameters of local made Diesel engines over the fuel consumption of the tractor – working vehicle system, INMATEH 2006, volume II, Bucuresti, ISSN 1583-1019, pp. 141-146, 2006; <http://www.inmateh.eu/INMATEH 2006/2 2006/nr2 2006.htm>
- 73 Petrescu, S., Bădescu, M., **Dumitru, I.**, Stan, C., Studies concerning the necessities of the coupling systems between the tractor and the working device from the point of view of persistence of working riability, The Scientific Conference with international participation “Durable Agriculture – Agriculture of the future” The Second Edition, 6 pg., 23-24 november, publicate in Analele Universitatii din Craiova, vol. XXXVI/B, Craiova, Romania, ISSN 1841-8317, 2006; <http://www.journals4free.com/?fq=class:agr&fq=spec:agric&fq=language:eng&p=2>, http://cis01.central.ucv.ro/analele_universitatii/agricultura/2006/anale 2006.pdf
- 74 Stan, C., Bădescu, M., **Dumitru, I.**, Petrescu, S., Comparative studies concerning road and agricultural transportation, The Scientific Conference with international participation “Durable Agriculture – Agriculture of the future” The Second Edition, Craiova, Romania, 9 pg., 23-24 november, publicate in Analele Universitatii din Craiova, vol. XXXVI/B, Craiova, Romania, ISSN 1841-8317, 2006, <http://www.journals4free.com/?fq=class:agr&fq=spec:agric&fq=language:eng&p=2>, http://cis01.central.ucv.ro/analele_universitatii/agricultura/2006/anale 2006.pdf
- 75 **Dumitru, I.**, Badescu, M., Cataneanu, M., Boiangiu Gh., Otat V., Debates concerning the involvement of competing engineering in the field of road vehicle and agricultural machine construction, The Scientific Conference with international participation “Durable Agriculture – Agriculture of the future” The Second Edition, 9 pg., 23-24 november, publicate in Analele Universitatii din Craiova, vol. XXXVI/B, Craiova, Romania, ISSN 1841-8317, 2006; <http://www.journals4free.com/?fq=class:agr&fq=spec:agric&fq=language:eng&p=2>, http://cis01.central.ucv.ro/analele_universitatii/agricultura/2006/anale 2006.pdf
- 76 Popa, Gh., **Dumitru, I.**, Constantinescu, A., Theoretical studies regarding the tractive efforts for vehicles using the hydrostatic transmissions, International Multidisciplinary Conference, Buletin Stiintific – fascicula Mecanica, Tribologie, Constructii de masini, vol XIX , North University of Baia Mare, ISSN 1224-3264, pp. 593-598, 2005; <http://www.nordtech.ubm.ro/issues/2005/2005.01.085.pdf>, <http://www.nordtech.ubm.ro/>
- 77 **Dumitru, I.**, Vinatoru M., Cătăneanu M., Optimization algoritms of fuel consumption of the Diesel engine with mechanical injection, The 9th International Congress on Automotive CAR 2005 (organized by FISITA) “Automotive and Environment”, Pitesti, ISBN 973-690-450-4, 9 pg., 2-4 November 2005, <http://www.fisita.com/>
- 78 **Dumitru, I.**, Cătăneanu M., Fuel consumption optimization for Diesel engines equipped with mechanical injection using on board information systems, EAEC European Automotive Congress, Beograd 2005, ISBN 86-80941, 6pg., 30th May –1 st June 2005; <http://www.scopus.com/authid/detail.uri?authorId=55258210200&eid=2-s2.0-84862637828>, <http://toc.proceedings.com/00238webtoc.pdf>, <http://www.fisita.com/publications/papers?id=3833>
- 79 Bolcu D., **Dumitru, I.**, Otat, V., Neagoe, D., The influence of suspension characteristics concerning vehicle oscillation, EAEC European Automotive Congress, Beograd 2005, ISBN 86-80941, 6pg., 30th

- May –1 st June 2005,
<http://www.scopus.com/authid/detail.uri?authorId=55258210200&eid=2-s2.0-84862637828>,
<http://toc.proceedings.com/00238webtoc.pdf>, <http://www.fisita.com/publications/papers?id=3887>
- 80 Popescu, S., **Dumitru, I.**, Boruz, S., Sosnowski, S., Apparatus and method for experimental research on the dynamics of tractor - front loader systems, TEKA Commission of motorization and power industry, Polish Academy of Science Branch in Lublin Volume V, Lublin Poland, pp. 192-197, 2005, ISSN 1641-7739, <http://www.pan-ol.lublin.pl/wydawnictwa/TMot5/Popescu.pdf>; <http://www.pan-ol.lublin.pl/english /teka-motrol eng/TMot5 2005.html>
 - 81 Radulescu, M., **Dumitru, I.**, About electrohydromecanic analogy, 8th International symposium on interdisciplinary regional research Hungary-Romania–Serbia and Montenegro, TSPO3 Szeged, pp97-106, 19 –21 April 2005; http://www2.uns.ac.rs/sr/novosti_dogadjaji/ISIRR/2005/index.html,
Citare in <http://www.bjmt.pub.ro/2111.pdf>
 - 82 Ungureanu, A. C., Popa, Gh., **Dumitru, I.**, Applications of the plan bars mechanisms in the food industry, The Scientific Conference with international participation “Durable Agriculture – Agriculture of the future” ISSN 1841-8317, pp. 259-264, 2005;
<http://www.journals4free.com/?fq=class:agr&fq=spec:agric&fq=language:eng&p=2>
<http://www.journals4free.com/link.jsp?l=23409255>,
 - 83 **Dumitru, I.**, Ungureanu, C.A, Research Methodology For Analyzing And Testing Data For The Mathematical Algorithms For Optimizing The Functioning Of Diesel Engines With Mechanical Injection The Scientific Conference with international participation “Durable Agriculture – Agriculture of the future” ISSN 1841-8317 2005;
<http://www.journals4free.com/link.jsp?l=23409255>,
http://cis01.central.ucv.ro/analele_universitatii/agricultura/2005/anale_2005.pdf
 - 84 **Dumitru, I.**, Ungureanu, C., The Mathematical Model for Road Service in the Jammed Intersections in the Central Area of Craiova City, CONAT, Brasov, 2004.
<http://www.fisita.com/publications/papers?id=3366>,
<http://www.conat.ro/index.php/conat/2004/schedConf/presentations>
 - 85 Ungureanu, C., **Dumitru, I.**, Popa, Gh., Considerations Regarding the Analysis and the Prognosis with Statistical Methods of the Environment Pollution Level due to the Urbane Vehicles Traffic, CONAT, Brasov, 2004. <http://www.fisita.com/publications/papers?id=3365>,
<http://www.conat.ro/index.php/conat/2004/schedConf/presentations>
 - 86 Ungureanu, C., **Dumitru, I.**, Popa, Gh., Considerations Regarding the Computational Analysis for the Reversing Plan Bars Mechanisms, CONAT, Brasov, 2004,
<http://www.fisita.com/publications/papers?id=3301>,
<http://www.conat.ro/index.php/conat/2004/schedConf/presentations>
 - 87 **Dumitru, I.**, Oță V, Bolcu D., Popa Gh., Sistem pilot de dirijare a traficului din zona centrală a municipiului Craiova, Simpozionul „Transportul și mediul social – economic și natural”, Asociația Generală a Inginerilor din România (Buletinul A.G.I.R.), 10 noiembrie, București, 10 pg., 2004
<http://www.buletinulaqir.agir.ro/>
 - 88 Bolcu, D., **Dumitru, I.**, Otat, V., Methods to Modify the Damping Characteristics for a Tyre-suspension Ensemble, CONAT, Brasov, 2004, <http://www.fisita.com/publications/papers?id=3476>
<http://www.conat.ro/index.php/conat/2004/schedConf/presentations>
 - 89 **Dumitru, I.** Bolcu, D, Cataneanu, M, The determination of the performance map for a naturally aspirated diesel engine in order to create the soft for the on board information system, Brasov, 2004 FISITA; <http://www.fisita.com/publications/papers?id=3451>,
<http://www.conat.ro/index.php/conat/2004/schedConf/presentations>
 - 90 Obogeanu C., **Dumitru, I.**, Use the finite elements method in order to determine the stress fields for an internal combustion engine, Annals of the Faculty of Engineering Hunedoara, 2004, tome II, Fascicule 3, pp. 191-196, ISSN 1585-2675, <http://annals.fih.upt.ro/pdf-full/2004/ANNALS-2004-3-25.pdf>; <http://annals.fih.upt.ro/indexes.html>

**ARTICOLE LA ALTE CONGRESE, CONFERINTE,
SIMPOZIONE, REVISTE NEINDEXATE ISI SAU BDI**

- 91 Dumitru, N., Craciunoiu, N., Rosca A, **Dumitru, I.**, Kinematic analysis of a steering mechanism from a road vehicle structure, *Proceedings of the 10th International Conference on Electromechanical and Power Systems*, ISBN 978-606-567-284-0, October 2015;
http://sielmen.ucv.ro/data/uploaded/procedings/volum_sielmen_2015.pdf
- 92 **Dumitru I.**, Otat V, Otat Oana, Popa Gh., Analysis on testing dismantled and undismantled vehicle engines, *International Conference of Mechanical Engineering-ICOME 2013*, Tome 2, pp. 477 – 484, ISBN 978-606-14-0692-0, Editura Universitaria, 16th –17th May, Craiova, 2013;
http://mecanica.ucv.ro/ViataAcademica/Conferinte/ICOME2013/Final-Program-ICOME%202013_final.pdf
- 93 **Dumitru, I.**, Otat Oana, Oprica Th., Otat V., On public transportation cycles' Determination and optimization in Craiova, *International Conference of Mechanical Engineering - ICOME 2013*, Tome 2, pp. 453 – 460, ISBN 978-606-14-0692-0, **Editura Universitaria**, 16th –17th of May, Craiova, 2013;
http://mecanica.ucv.ro/ViataAcademica/Conferinte/ICOME2013/Final-Program-ICOME%202013_final.pdf
- 94 Oprica Th., Vîătoru M., **Dumitru I.**, Studies regarding distributed architectures for road traffic management at local level, *International Conference of Mechanical Engineering - ICOME 2013*, Tome 2, pp. 429 – 436, ISBN 978-606-14-0692-0, Editura Universitaria, 16th –17th of May, Craiova, 2013; http://mecanica.ucv.ro/ViataAcademica/Conferinte/ICOME2013/Final-Program-ICOME%202013_final.pdf
- 95 Plesea L., **Dumitru I.**, Oprica Th., Consideration about the evolution of traffic management systems, *International Conference of Mechanical Engineering-ICOME 2013*, Tome 2, pp. 469 – 476, ISBN 978-606-14-0692-0, Editura Universitaria, 16th –17th of May, Craiova, 2013;
http://mecanica.ucv.ro/ViataAcademica/Conferinte/ICOME2013/Final-Program-ICOME%202013_final.pdf
- 96 Oprica T., Plesea L., **Dumitru I.**, Matei L., Studies regarding freight distribution in Craiova historic center *International Conference of Mechanical Engineering - ICOME 2013*, Tome 2, pp. 485 – 492, ISBN 978-606-14-0692-0, Editura Universitaria, 16th –17th of May, Craiova, 2013;
http://mecanica.ucv.ro/ViataAcademica/Conferinte/ICOME2013/Final-Program-ICOME%202013_final.pdf
- 97 Constantinescu A., Trotea, M., **Dumitru I.**, Measuring the torque and rotational speed of Drive shafts for front and rear axles of a 4x4 tractor, *International Conference of Mechanical Engineering - ICOME 2013*, Tome 2, pp. 409-414, ISBN 978-606-14-0692-0, Editura Universitaria, 16th –17th of May, Craiova, 2013; http://mecanica.ucv.ro/ViataAcademica/Conferinte/ICOME2013/Final-Program-ICOME%202013_final.pdf
- 98 Matei, L., **Dumitru, I.**, Vinatoru, M, Oprica Th., Mobility credit platform for improving transport efficiency of Craiova, *International Conference of Mechanical Engineering - ICOME 2013*, Tome 2, pp. 461 – 468, ISBN 978-606-14-0692-0, Editura Universitaria, 16th –17th of May, Craiova, 2013;
http://mecanica.ucv.ro/ViataAcademica/Conferinte/ICOME2013/Final-Program-ICOME%202013_final.pdf
- 99 **Dumitru, I.**, Oprica, T., Vîătoru, M., Case Study Regarding Semaphores Sincronization Along a Main Street in the City of Craiova, *International Conference Motor Vehicle & Transportation - MVT 2012*, ISBN: 978-973-638-524-7, Editura Orizonturi Universitare, 7-9 November 2012, 6 pg, 101-105 Timisoara, 2012; <http://www.fisita.com/events/diary/mvt-2012>
- 100 **Dumitru, I.**, Plesea, L., Oprica, Th., Matei, L., Quantification Road Traffic Optimization Solutions Intersections in Terms of Costs, *International Conference Motor Vehicle & Transportation - MVT 2012*, ISBN: 978-973-638-524-7, Editura Orizonturi Universitare, 7-9 November 2012, Timisoara; <http://www.fisita.com/events/diary/mvt-2012>
- 101 Radulescu, M., **Dumitru, I.**, Caramavru Șt., Theoretical Studies on Pressure Pulsations in the Injection Systems Pipelines for Internal Combustion Engines, *International Conference Motor Vehicle &*

- Transportation - MVT 2012, , ISBN: 978-973-638-524-7, Editura Orizonturi Universitare, 7-9 November 2012, Timisoara; <http://www.fisita.com/events/diary/mvt-2012>
- 102 Bolcu, D., **Dumitru, I.**, Otat, Victor - Spectral Decomposition of the Elasticity Tensor for Materials with Trigonal Symmetry, International Conference, ATM, Bucuresti, september 2007;
- 103 Otat, V., **Dumitru, I.**, Popa, Gh., Decongestionarea circulatiei rutiere, cresterea sigurantei si reducerea poluarii in marile aglomerari urbane prin utilizarea sistemelor inteligente de trafic, Revista AutoTest, Bucuresti, Nr. 117, iulie-august, ISSN 1221-2678, 2006; <http://www.autotestmagazin.ro/>
- 104 Cataneanu M., **Dumitru, I.**, OBD II - Concept si tendințe de evoluție, Revista AutoTest, Bucuresti, Nr. 117, iulie-august, ISSN 1221-2678, 2006; <http://www.autotestmagazin.ro/>
- 105 **Dumitru, I.**, Cataneanu, M., Boiangiu, Gh., Stan, S., Research Methodology for Analyzing and testing Data for the Mathematical Algorithms for Optimizing the Functioning of the Diesel Engines with Mechanical Injection, The VIIIth International Symposium "Young people and multidisciplinary research, Timisoara, Romania, ISBN 10 973-8359-39-2, ISBN – 13 978-973-8359-39-0, 11th-12th May 2006;
- 106 **Dumitru, I.**, Oțăt, V., Bolcu, D., Ungureanu, A. C., Constantinescu, A., Studii ale impactului autovehicul – mediu din perspectiva evaluării poluării fonice în traficul rutier din zona centrală a municipiului Craiova, The 1st International Symposium "Mechanical engineering and environment", Craiova, Romania, ISBN 973-742-441-7, 978-973-441-9, 6-7 October, 6 pg., 2006;
- 107 **Dumitru, I.**, Cătăneanu, M., Obogeanu, C., Stan, S., Evaluarea poluării chimice în traficul rutier din municipiul Craiova, The 1st International Symposium "Mechanical engineering and environment", Craiova, Romania, ISBN 973-742-441-7, 978-973-441-9, 6-7 October, 6 pg., 2006;
- 108 Obogeanu, C., **Dumitru, I.**, Popa, Gh., Environmental and pollution prevention for automobile recycling, Mechanical engineering and environment", Craiova, Romania, ISBN 973-742-441-7, 978-973-441-9, 6-7 October, 4 pg., 2006;
- 109 Ungureanu, A. C., Popa, Gh., **Dumitru, I.**, Boiangiu, Gh., Considerations regarding the computational analysis for the five plan bars mechanisms with RRT and RTR dyads, Magazine Machine building (машино – строење & електротехника), №.5, ISSN 0025-455X, Sofia, pp. 30-34, 2005; <http://www.mbe-bg.com/index.html>.
- 110 **Dumitru, I.**, Otat, V., Vinatoru, M., Optimizarea consumului de combustibil si reducerea poluarii la autovehiculele indigene prin intermediul sistemelor informationale, Revista AutoTest, Bucuresti, Nr. 110, noiembrie, ISSN 1221-2678, pp. 62-63, 2005, articol preluat si publicat si de revista Autotehnica in numarul din noiembrie 2005, pp. 45-46, ISSN 1841-5962, 2005;
- 111 **Dumitru, I.**, Obogeanu, C., Otat, V., Metoda moderna de determinare eficienta a momentului motor la motoarele Diesel, Conferinta nationala de Termotehnica cu participare internationala, Editia a XV^a, ISBN 973-742-089-6, 8 pg. 26-28 mai 2005, Craiova, 2005;
- 112 Obogeanu, C., **Dumitru, I.**, Transient thermal analysis for four-stroke engine, Conferinta nationala de Termotehnica cu participare internationala, Editia a XV^a, ISBN 973-742-089-6, 4 pg., 26-28 mai 2005, Craiova, 2005;
- 113 Negru, M., Popescu L., Popescu M., **Dumitru, I.**, The analysis of button spot weld of a vehicle wheel rim using finite element method, Magazine Machine building (машино – строење & електротехника), №.12, ISSN 0025-455X, Sofia, pp. 119-122, 2004; <http://www.mbe-bg.com/index.html>.
- 114 Ungureanu, A. C., **Dumitru, I.**, Considerations regarding the verification accuracy of some experimental defined laws of motion, Magazine Machine building (машино – строење & електротехника), №.9, ISSN 0025-455X, Sofia, pp. 100-102, 2004; <http://www.mbe-bg.com/index.html>.
- 115 **Dumitru, I.**, Bolcu D., Popescu S., Cătăneanu M., The elaboration of the mathematical algorithm necessary for the indirect determination of the torque engine at the Diesel engine D115, International Conference "TRANS & MOTAUTO'04, volume 2, ISBN 954 – 9322 – 06 –8, Plovdiv, pp. 53-56, 14 –17 October, 2004; <http://www.mbe-bg.com/index.html>.
- 116 Obogeanu, C., **Dumitru, I.**, Use of the finite elements method in order to determine the stress fields for an internal combustion engine, 6th international Symposium "Young people and

- multidisciplinary research Romania – Serbia & Montenegro – Hungary, ISBN: 973 – 7911 –77 – 6, Timișoara, pp. 196-203, 23-24 September 2004;*
- 117 **Dumitru, I.**, *The improvement of tractor engine power using the determination algorithms for the optimal working points, 6th international Symposium “Young people and multidisciplinary research Romania – Serbia & Montenegro – Hungary, ISBN: 973 – 7911 –77 – 6, Timișoara, pp. 148-153, 23-24 September 2004;*
- 118 **Dumitru, I.**, Radulescu, M., *Advisabilities offered by the information systems for the optimization of the energetic parameters for the diesel engines, INMATEH 2004, Bucuresti, 2004;*
- 119 **Dumitru I.**, Popa Gh., Cătăneanu M., *Evaluarea concepției și construcției tractoarelor din perspectiva mecatronicii, Simpozionul INMATEH 2003, ISSN 1583-1019, INMA București, pp. 149-156, 2003;*
- 120 **Dumitru I.**, Popescu, S., *Optimizarea parametrilor specifici ai sistemelor tip tractor-mașină de lucru prin utilizarea sistemelor informaționale, Simpozionul INMATEH 2003, ISSN 1583-1019, INMA București, pp. 53-62, 2003;*
- 121 **Dumitru I.**, Mihnea Cătăneanu, Popa I., *Soluții oferite de sistemele informaționale tip pentru rezolvarea optimă a congestionării traficului și poluării în circulația rutieră, al V- lea Simpozion Internațional, România - Serbia & Muntenegru - Ungaria, „Tinerii și cercetarea multidisciplinară”, M.E.C.T. - Asociația pentru cercetare multidisciplinară din zona de vest a României, vol I, ISBN: 973 – 8359, Timișoara, pp. 76-83, 6 –7 noiembrie 2003;*
- 122 **Dumitru I.**, Popa, Gh., Cătăneanu, M., *Considerații privind metoda indirectă de determinare a momentului motor efectiv la motorul D-115, al V- lea Simpozion Internațional, România - Serbia & Muntenegru - Ungaria, „Tinerii și cercetarea multidisciplinară”, M.E.C.T. - Asociația pentru cercetare multidisciplinară din zona de vest a României, vol I, ISBN: 973 – 8359, Timișoara, pp. 70-75, 6 –7 noiembrie 2003;*
- 123 **Pisoschi Al. - Gr., Dumitru I.**, Popa, Gh, Șutru, N., *Determinarea parametrilor de fiabilitate pentru schimbătorul de viteze AK-6-80, Conferința Națională cu participare internațională AMMA 2002, Universitatea Tehnică din Cluj-Napoca, Volumul I, ISBN 973-8335-60-4, Cluj-Napoca, pp. 209-214, 10-11 octombrie 2002;*
- 124 **Dumitru, I.**, Cătăneanu, M., *Techniques of assisted projection for the optimization of some sequences of projection in the road vehicles domain, Annals of the University of Craiova - Serial Mechanics, ISSN: 1223- 5296, Craiova, pp. 73-78, 2002;*
- 125 **Dumitru, I.**, Cătăneanu, M., Popa, Gh., *The determination of the mass center of an automobile with an engine-gearbox transversal displacement solution, using AutoCAD 2000 and MATHCAD 6.0 PLUS, Annals of the University of Craiova - Serial Mechanics, ISSN: 1223 – 5296, Craiova, pp. 65-72, 2002;*
- 126 **Pisoschi, Al.-Gr., Dumitru, I.**, Popa, Gh., Bungescu, S., *The calculation of resistance (simplicity) for containers under pressure in compare with analyses from method of finite element, 6th International Symposium Interdisciplinary Regional Research: Hungary-Romania-Yugoslavia ISIRR, University of NoviSad, 6 pg., 3-4 October 2002;*
- 127 **Bolcu, D., Otat, V., Dumitru, I.**, Vinatoru, A.C., Popa, Gh., *On the vibration of composite bar in plan motion, 6th International Symposium Interdisciplinary Regional Research: Hungary-Romania-Yugoslavia ISIRR, University of NoviSad, 5 pg., 3-4 October 2002;*
- 128 **Bolcu, D., Dumitru, I.**, Otat, V., Buculei, M., *Studie regarding motorcar oscillation, 6th International Symposium Interdisciplinary Regional Research: Hungary-Romania-Yugoslavia ISIRR, University of NoviSad, 5 pg., 3-4 October 2002;*
- 129 **Dumitru, I.**, Vinatoru, A.C., *Utilizarea sistemelor informaționale în cadrul transportului public în vederea reducerii poluării, Conferința SMAT 2001, Autovehiculul siguranță, confort, fiabilitate, Universitatea din Craiova, volumul I, pag. 473 -442, ISBN 973-8043-23-4, Craiova, pp. 549-553, 08-09 noiembrie 2001;*
- 130 **Vinătoru, A.-C., Dumitru I.**, *Utilizarea metodei diferențelor finite în studiul interferenței proceselor de transfer de căldură, prin sol, între două canale, cu pardoseala la nivelul solului, Conferința SMAT 2001, Autovehiculul siguranță, confort, fiabilitate, Universitatea din Craiova, volumul III, ISBN 973-8043-24-5, Craiova, pp. 23-26, 08-09 noiembrie 2001;*

- 131 Pisoschi Al. - Gr., Cernăianu E., **Dumitru I.**, Popa Gh., *Analiza tensiunilor din structura principală de rezistență a plugului PP 4 –30 (S.C. MAT Craiova), Conferința SMAT 2001, Autovehiculul siguranță, confort, fiabilitate, Universitatea din Craiova, volumul II, ISBN 973-8043-24-5, Craiova, pp. 133-136, 08-09 noiembrie 2001;*
- 132 Pisoschi Al. - Gr., Cernăianu E., **Dumitru I.**, Popa Gh., *Analiza sarcinilor care acționează asupra structurii principale de rezistență a cadrului plugului PP – 30 (S.C. MAT Craiova), Conferința SMAT 2001, Autovehiculul siguranță, confort, fiabilitate, Universitatea din Craiova, volumul II, ISBN 973-8043-24-5, Craiova, pp. 127-132, 08-09 noiembrie 2001;*
- 133 Pisoschi Al.-Gr., **Dumitru I.**, Popa Gh., *Deservirea tehnică în cazul căderii aleatorii a autovehiculelor, Conferința SMAT 2001, Autovehiculul siguranță, confort, fiabilitate, Universitatea din Craiova, volumul I, ISBN 973-8043-23-4, Craiova, pp. 437-442, 08-09 noiembrie 2001;*
- 134 Pisoschi Al.-Gr., **Dumitru I.**, Vînătoru A. C., Popa Gh., Boiangiu Gh., *The Analysis of the Tensions that Appear in the Axle GDU-3,3-2.0 Afferent to the Disk Harrow GDU-3,3, International Symposium Prospects for the Agriculture of the 3rd Millenium, October 25-27, Buletinul Universității de Științe Agricole și Medicină Veterinară, Cluj-Napoca-seria Agricultură, ISSN 1454-2382, pp. 123-128, 2001 (cod CNCIS 485);*
- 135 Pisoschi Al.-Gr., Cernăianu Corina-Dana, **Dumitru I.**, Popa Gh., *Analiza tensiunilor care iau naștere în secțiunea axului bateriei cu discuri de la grapa GDU-3,4 în procesul de lucru, Analele Universității din Craiova- vol XXXI- 2001, ISSN 1582-9391, Editura Universitaria, Craiova, pp. 371-376, 2001;*
- 136 Pisoschi Al.-Gr., Cernăianu A.C., **Dumitru I.**, Popa Gh., *Analiza încărcărilor și deformațiilor axului bateriei cu discuri de la grapa cu discuri GDU-3,4, Analele Universității din Craiova, vol XXXI-2001, ISSN 1582-9391, Editura Universitaria, Craiova, pp. 361-370, 2001;*
- 137 **Dumitru I.**, Pisoschi Al.-Gr., Popa Gh., Vînătoru A. C., *Considerații privind operațiile de măsurare întâlnite la cercetarea sistemelor tehnice de tipul tractor-mașină de lucru, Analele Universității din Craiova- vol XXXI- 2001, ISSN 1582-9391, Editura Universitaria, Craiova, pp. 355-360, 2001;*
- 138 **Dumitru I.**, Pisoschi Al.-Gr., Popa Gh., Vînătoru A.C., *Aspecte generale ale folosirii electronicii la sistemele de tipul tractor-mașină de lucru, Analele Universității din Craiova- vol XXXI- 2001, ISSN 1582-9391, Editura Universitaria, Craiova, pp. 351-354, 2001;*
- 139 Vînătoru, A.C., **Dumitru, I.**, Popa, Gh., *Aplicarea calculului cu element finit la construcțiile din vecinătatea pantelor, Analele Universității din Craiova – seria Mecanică, Nr. 1/2001, ISSN 1223-5296, pp. 267-272, 2001;*
- 140 Obogeanu, C., **Dumitru, I.**, *Use of the energetic principles in the analysis of the stresses and strains fields for a continuum, Analele Universității din Craiova- Seria Mecanică, Nr. 1/2000, ISSN 1223-5296, Craiova, pp. 197-202, 2000;*
- 141 **Dumitru, I.**, Obogeanu, C, *Studiul comparativ între diagnosticarea de stand și cea de bord utilizate la autovehicule, Analele Universității din Craiova- Seria Mecanică, Nr. 1/2000, ISSN 1223-5296, Craiova, pp. 153-160, 2000;*
- 142 **Dumitru, I.**, *Influența parametrilor funcționali ai motorului asupra consumului de combustibil al sistemului tractor-mașină de lucru, Revista Mecanizarea Agriculturii, nr. 6, ISSN 1011-7296, pp. 39-42, 2000;*
- 143 Gherghina, G., **Dumitru, I**, *Elemente mecatronice întâlnite la autovehicule, a VIII-a Conferință Internațională de Autovehicule Rutiere CAR 2000, I.S.B.N. 973-8212-04-9, organizată de: Federation Internationale des Societes d Ingeneurs des Tehniques de l'Automobile, European Automobile Engineers Cooperation și Universitatea din Pitești, Pitești, pp. 11-16, 16-17 noiembrie 2000;*
- 144 Ionașcu, I., Pisoschi, Al.-Gr., **Dumitru, I.**, Popa, Gh., *Cercetări privind stabilirea tehnologiei de cultivare a porumbului pe terenuri în pantă, Simpozionul Agricultură și alimentație-prezent și perspectivă, Universitatea de Științe Agricole și Medicină Veterinară din Cluj Napoca, vol I, Editura Academic Press, ISBN 973-9999-4-x, Cluj-Napoca, pp. 122-127, 2000;*
- 145 Bârcă, Gh., Ciulu, Gh., Ionașcu, I., Pisoschi, Al.-Gr., **Dumitru, I.**, Popa, Gh., *Cercetări noi privind tehnologii de lucrare a solului în vederea practicării agriculturii durabile, Simpozionul Agricultură și alimentație-prezent și perspectivă, Universitatea de Științe Agricole și Medicină Veterinară din Cluj Napoca, vol I, Editura Academic Press, ISBN 973-9999-4-x, Cluj-Napoca, pp. 117-121, 2000;*

- 146 **Dumitru, I.**, Pisoschi Al.-Gr., Gaiță F., *Influența factorilor constructivi ai motoarelor cu aprindere prin comprimare asupra consumului de combustibil*, *Analele Universității din Craiova*, vol XXX, I.S.B.N.:973-97173-2-2, Craiova, pp. 311-314, 2000;
- 147 Pisoschi, Al.-Gr., **Dumitru. I.**, Gaiță, F., *Determinarea durabilității segmentului de foc de la motorul D-110 utilizând funcția de uzare*, *Analele Universității din Craiova*, vol XXX, I.S.B.N.:973-97173-2-2, organizate de Universitatea din Craiova, Craiova, pp. 307-310, 2000;
- 148 Ciulu, Gh., Ionașcu, I, Bârcă, Gh., Pisoschi Al.-Gr., **Dumitru, I.**, *Recomandări privind păstrarea și exploatarea tractoarelor la temperaturi scăzute*, *Revista Mecanizarea Agriculturii*, nr. 3, ISSN 1011-7296, pp. 40-45, 1999;
- 149 **Dumitru, I.**, *Influența anumitor factori de exploatare asupra consumului de combustibil al sistemului tractor-mașină de lucru*, *Analele Universității din Craiova-Seria Mecanică*, Nr. 1/1999, ISSN 1223-5296, pp. 332-337, Craiova, 1999;
- 150 Gherghina, G., **Dumitru, I.**, *Tipuri de senzori utilizați la autovehicule*, *Analele Universității din Craiova- Seria Mecanică*, Nr. 1/1999, ISSN 1223-5296, Craiova, pp. 260-265, 1999;
- 151 Bădescu, M., Cernăianu, E., **Dumitru. I.**, *Cercetări privind stabilirea modului de elasticitate longitudinal al vrejilor de cartof*, *Sesiunea științifică cu participare internațională Prezent și viitor în domeniul mașinilor și instalațiilor destinate agriculturii și industriei alimentare*, I.S.B.N.: 973-95305-7-5, organizată de Ministerul Cercetării și Tehnologiei, București, pp. 206-217, 18-19.09.1997;
- 152 Bădescu, M., Cernăianu, E., **Dumitru. I.**, *Studii cu privire la stabilirea modului de elasticitate longitudinal al vrejilor de cartof prin metoda vibrației*, *Analele Universității din Craiova, seria Agricultură - Agromontanologie*, Craiova, pp. 473-481, 1997;