

Fișa de verificare

Numele și prenumele candidatului: Ioan-Cozmin Manolache-Rusu

Denumirea postului didactic: Asistent Poziția din statul de funcții43.

Standarde minimale pentru ocuparea prin concurs a posturilor vacante ale universității:

| Nr. crt. | Denumire standard | Documentele care dovedesc îndeplinirea standardelor | Medie |
|----------|--|--|-------|
| 1. | Doctor / doctorand | Diplomă de doctor nr. 39/2.10.2015 | F.B. |
| 2. | Media examenului de finalizare a studiilor | cf. Diplomei de inginer nr. 23/26.01.2010 și adeverinței de absolvire studii masterat nr. 2506/2.03/2010 | 8,94 |

2. Cercetarea științifică

| Nr. | Indicatori | Punctaj final | |
|-----|---|---------------|--|
| | | Factor – F | Propunere |
| | Articol / studiu publicat în revistă cotate ISI (A) / ERIH. (FI – factor de impact; SRI – scor relativ de influență) | 100 | $F + 50 \times \left(\frac{FI}{\text{nr. autor}} \right)$ |
| | I.Mihai, I. C. Manolache-Rusu, Proposed method to acquire an extended diagram for a gasoline engine, MECHANIKA, Vol. 19, nr. 2, (2013) pp. 215-222. (factor ISI: 0.382) https://apps.webofknowledge.com/Search.do?product=WOS&SID=Y1119bpaH7vfYf51QZn&search_mode=GeneralSearch&prID=81649737-3fa2-415e-a8cf-b3695c7e9104 | | $[(100+50*(0.382))/2]=59.55$ |
| | Articol / studiu publicat în revistă de specialitate recunoscute la nivel național de CNCS (CNCSIS) (B+). | 35 | F/nr. autori* |
| | L. Pătuleanu, I. C. Manolache-Rusu, F. Andronic, I. Radion, Heat transfer through mini and micro circular channels of CPU's cooling systems, Journal of Engineering Studies and Research, Vol. 20, Nr. 1 (2014), pp. 76-81. https://search.proquest.com/docview/1525958932?pq-origsite=gscholar | 35/4 | 8.75 |
| | F. Andronic, I. Mihai, I. C. Manolache-Rusu, L. Pătuleanu, I. Radion, Simulating passive suspension on an uneven track surface, Journal of Engineering Studies and Research, Vol. 20, Nr. 1 (2014), pp. 7-16. https://search.proquest.com/docview/1525959343?pq-origsite=gscholar | 35/5 | 7 |
| | I.C. Manolache-Rusu, C. Suci, F. Andronic, L. Pătuleanu, I. Radion, New approach on mathematical modeling of jake brake process for diesel engines, Journal of Engineering Studies and Research, Vol. 20, Nr. 1 (2014), pp. 52-59. https://search.proquest.com/docview/1525958896?pq-origsite=gscholar | 35/5 | 7 |
| | I.C. Manolache-Rusu, C. Suci, L. Pătuleanu, F. Andronic, Influence of braking valve opening and closing angles upon torque, Journal of Engineering Studies and Research, Vol. 20, Nr. 1 (2014), pp. 45-51. https://search.proquest.com/docview/1525958916?pq-origsite=gscholar | 35/4 | 8.75 |
| | L. Pătuleanu, I.C. Manolache-Rusu, T. Burdan, F. Andronic, I. Radion, Freon cooling minisystem using circular micro-channels, Journal of Engineering Studies and Research, Vol. 20, Nr. 2 (2014). https://search.proquest.com/docview/1627724910?pq-origsite=gscholar | 35/5 | 7 |

| Nr. | Indicatori | Punctaj final | |
|-----|---|---------------|--------------|
| | | Factor – F | Propunere |
| | Articol / studiu publicat la conferințe cu proceedings-uri indexate în baze de date internaționale, altele decât ISI, regăsite în Ordinele nr. 4691 și 4692 din 2011 al Ministerul Educației, Cercetării, Tineretului și Sportului. | 35 | F/nr.autori* |
| | L. Pătuleanu, I. C. Manolache-Rusu, F. Andronic, I. Radion, Heat transfer through the components of CPU's heat sink, the 17th International Conference of New Technologies and Products In Machine-Manufacturing Technologies, "TEHNOMUS XVII" 17-18 May 2013, Suceava, România, pp. 358 http://www.fim.usv.ro/conf_1/tehnomusjournal/pagini/journal2013/files/63.pdf | 35/4 | 8.75 |
| | L. Pătuleanu, F. Andronic, I. C. Manolache-Rusu, I. Radion, Heat transfer in the cooler-CPU interface, the 17th International Conference of New Technologies and Products In Machine-Manufacturing Technologies, "TEHNOMUS XVII" 17-18 May 2013, Suceava, România, pp. 379. http://www.fim.usv.ro/conf_1/tehnomusjournal/en/pagini/journal2013/files/67.pdf | 35/4 | 8.75 |
| | F. Andronic, I. C. Manolache-Rusu, L. Pătuleanu, Passive suspension modeling using Matlab, quarter car model, input signal step type, the 17th International Conference of New Technologies and Products In Machine-Manufacturing Technologies, "TEHNOMUS XVII" 17-18 May 2013, Suceava, România, pp. 258. http://www.fim.usv.ro/conf_1/tehnomusjournal/en/pagini/journal2013/files/45.pdf | 35/3 | 11.66 |
| | I.C. Manolache-Rusu, L. Pătuleanu, F. Andronic, I. Radion, Evaluation of termo-gas dynamic parameters for engine brake process, the 17th International Conference of New Technologies and Products In Machine-Manufacturing Technologies, "TEHNOMUS XVII" 17-18 May 2013, Suceava, România, pp. 270. http://www.fim.usv.ro/conf_1/tehnomusjournal/pagini/journal2013/files/47.pdf | 35/4 | 8.75 |
| | I.C. Manolache-Rusu, T. L. Severin, L. Pătuleanu, F. Andronic, Effect of exhaust valve timing and boost pressure on engine brake performance, the 17th International Conference of New Technologies and Products In Machine-Manufacturing Technologies, "TEHNOMUS XVII" 17-18 May 2013, Suceava, România, pp. 369. http://www.fim.usv.ro/conf_1/tehnomusjournal/en/pagini/journal2013/files/65.pdf | 35/4 | 8.75 |
| | Susținere referat în cadrul doctoratului. | 25 | F |
| | Referat 2. Manolache-Rusu, I.C, "Analiza proceselor din motorul diesel la frânarea de tip Jake", Universitatea "Stefan cel Mare", Suceava, Iulie 2013 | | 25 |
| | Referat 3. Manolache-Rusu, I.C, "Cercetări privind comportarea sistemului Jake la frânarea motorului diesel", Universitatea "Stefan cel Mare", Suceava, Septembrie 2013 | | 25 |
| | Raport de cercetare științifică susținut în departament. | 20 | F |
| | Raport final. Manolache-Rusu, I.C, , "Cercetări privind frânarea de tip Jake la motoarele diesel", Universitatea "Stefan cel Mare", Suceava, Septembrie 2013 | | 20 |
| | Susținere publică teza doctorat (punctaj acordat în anul susținerii). | 50 | F |
| | Titlul tezei: "Cercetări privind frânarea de tip Jake la motoarele diesel", Universitatea "Stefan cel Mare", Suceava, Iulie 2015 | | 50 |

TOTAL PUNCTAJ: __264,71__ puncte

Întocmit,

Nume, prenume și semnătură candidat
Manolache-Rusu Ioan-Cozmin



Data,

6.10.2017.

Universitatea Stefan X USV Bib. - Căutare d X orar formatii studiu X Mail - Ioan-Cozmin X Ionuț Gabriel Ghion X Web of Science [v.5 X IOAN-COZMIN

https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=9&SID=T1jVnpOUDCQSNyovuyr&page=1&doc=1

Apps Bardi Auto Webshop Google Calitate - Universitat orar formatii studiu Outlook - cozmin.m Locuri de munca Ing Locuri de munca Suc Other bookmarks

Web of Science Clarivate Analytics

Search Search Results My Tools Search History Marked List

Look Up Full Text Save to EndNote online Add to Marked List 1 of 1

Proposed method to acquire an extended diagram for a gasoline engine

By: Mihai, I (Mihai, I.)^[1]; Manolache-Rusu, IC (Manolache-Rusu, I. C.)^[1]
 View ResearcherID and ORCID

MECHANIKA
 Issue: 2 Pages: 215-222
 DOI: 10.5755/j01.mech.19.2.4151
 Published: 2013

Impact Factor
0.382 **0.338**
 2016 5 year

| JCR® Category | Rank in Category | Quartile in Category |
|---------------|------------------|----------------------|
| MECHANICS | 127 of 133 | Q4 |

Data from the 2016 edition of Journal Citation Reports

ur-stroke cycle engine. In order to draw such a diagram
 one can make a piezoelectric pressure transducer that
 extended diagram for the single cylinder four-stroke
 ment allow us to perform studies on how the motive fluid
 the process duration compared to the duration of the

Citation Network

0 Times Cited
 7 Cited References
 View Related Records
 Create Citation Alert
 (data from Web of Science Core Collection)

All Times Cited Counts

0 in All Databases
 0 in Web of Science Core Collection
 0 in BIOSIS Citation Index
 0 in Chinese Science Citation Database
 0 in Data Citation Index
 0 in Russian Science Citation Index
 0 in SciELO Citation Index

democatia2.pdf ECHIPAMENTE SI I...pdf Echipamente si ins...pdf Show all

EN 1:50 PM 10/3/2017

Universitatea Stefan X USV Bib. - Căutare d X orar formatii studiu X Mail - Ioan-Cozmin X Ionuț Gabriel Ghion X NEW APPROACH X IOAN-COZMIN

Secure | https://search.proquest.com/docview/1525958896?pq-origsite=gscholar

Apps Bardi Auto Webshop Google Calitate - Universitat orar formatii studiu Outlook - cozmin.m Locuri de munca Ing Locuri de munca Suc Other bookmarks

ProQuest

Basic Search Advanced Search Publications Browse Databases (3)

NEW APPROACH ON MATHEMATICAL MODELING OF JAKE BRAKE PROCESS FOR DIESEL ENGINES

Manolache-Rusu, Ioan-Cozmin; Suciu, Cornel; Andronic, Florin; Patuleanu, Liliana; Radion, Ivan. *Journal of Engineering Studies and Research*; Bacau 20.1 (2014): 52-59.

Full text - PDF Abstract/Details References 7

Journal of Engineering Studies and Research – Volume 20 (2014) No. 1 52

NEW APPROACH ON MATHEMATICAL MODELING OF JAKE BRAKE PROCESS FOR DIESEL ENGINES

Search ProQuest... [Q]

Download PDF

Cite Email Print Save

Add to Selected items

AnelisPlus Anelis Plus Consortium

Documents with shared references (4)

Related items

democatia2.pdf ECHIPAMENTE SI I...pdf Echipamente si ins...pdf Show all

EN 1:54 PM 10/3/2017

WZ

Universitatea Stefan x USV Bib. - Cautare d x orar formatii studiu x Mail - Ioan-Cozmin x Ionut Gabriel Ghione x SIMULATING PASSI x IOAN-COZMIN

Secure | https://search.proquest.com/docview/1525959343?pq-origsite=gscholar

Apps Bardi Auto Webshop Google Calitate - Universitat orar formatii studiu Outlook - cozmin.m Locuri de munca Ing Locuri de munca Suc Other bookmarks

ProQuest

Basic Search Advanced Search Publications Browse Databases (3)

SIMULATING PASSIVE SUSPENSION ON AN UNEVEN TRACK SURFACE

Andronic, Florin; Mihai, Ioan x Manolache-Rusu, Ioan-Cozmin; Patuleanu, Liliana; Radion, Ivan. *Journal of Engineering Studies and Research; Bacau* 20.1 (2014): 7-16.

Full text Full text - PDF Abstract/Details References 19

Abstract [Translate](#)

Automobile suspension systems have an important role in a vehicle's functioning, especially with regard to driving safety. In the present paper we exhibit the equations that characterize a passive suspension system. Considering that solving the equations is extremely cumbersome we developed a simulation scheme in MATLAB Simulink. The simulation allows for an analysis of the behavior of the passive suspension system on any uneven track surface whose configuration is ensured by stimulus signals. For the simulation we used the quarter car model. The suspension was chosen as having two degrees of freedom. [PUBLICATION ABSTRACT]

Full Text [Translate](#)

Headnote
 Abstract: Automobile suspension systems have an important role in a vehicle's functioning, especially with regard to driving safety. In the present paper we exhibit the equations that characterize a passive suspension system. Considering that solving the equations is extremely cumbersome we developed a simulation scheme in MATLAB Simulink. The simulation allows for an analysis of the behavior

Search ProQuest...

Download PDF

Cite Email Print Save

Add to Selected Items

AnelisPlus Anelis Plus Consortium

Documents with shared references (160)

Related items [v](#)

democatia2.pdf ECHIPAMENTE SI L...pdf Echipamente si ins...pdf Show all

EN 1:54 PM 10/3/2017

Universitatea Stefan x USV Bib. - Cautare d x orar formatii studiu x Mail - Ioan-Cozmin x Ionut Gabriel Ghione x INFLUENCE OF BRA x IOAN-COZMIN

Secure | https://search.proquest.com/docview/1525958916?pq-origsite=gscholar

Apps Bardi Auto Webshop Google Calitate - Universitat orar formatii studiu Outlook - cozmin.m Locuri de munca Ing Locuri de munca Suc Other bookmarks

ProQuest

Basic Search Advanced Search Publications Browse Databases (3)

INFLUENCE OF BRAKING VALVE OPENING AND CLOSING ANGLES UPON TORQUE

Manolache-Rusu, Ioan-Cozmin; Suciu, Cornel; Patuleanu, Liliana; Andronic, Florin. *Journal of Engineering Studies and Research; Bacau* 20.1 (2014): 45-51.

Full text Full text - PDF Abstract/Details References 6

Abstract [Translate](#)

Engine brake systems are based on the concept of spending a large amount of the vehicle's kinetic energy by releasing pressure from the cylinder. Although an important part of the kinetic energy is used during compression, unless the spring effect of gases is suppressed, a good portion of it is returned to the wheel during the power stroke. This goal can be achieved by releasing of compression just before maximum cylinder pressure is reached. The present paper illustrates investigations upon the exhaust valve opening and closing angles that determine a braking event and their influence upon engine torque. [PUBLICATION ABSTRACT]

Full Text [Translate](#)

Headnote
 Abstract: Engine brake systems are based on the concept of spending a large amount of the vehicle's kinetic energy by releasing pressure from the cylinder. Although an important part of the kinetic energy is used during compression, unless the spring effect of gases is suppressed, a good portion of it is returned to the wheel during the power stroke. This goal can be achieved by releasing of

Search ProQuest...

Download PDF

Cite Email Print Save

Add to Selected Items

AnelisPlus Anelis Plus Consortium

Documents with shared references (4)

Related items [v](#)

democatia2.pdf ECHIPAMENTE SI L...pdf Echipamente si ins...pdf Show all

EN 1:55 PM 10/3/2017

Universitatea Stefan x USV Bib. - Căutare d x orar formatii studiu x Mail - Ioan-Cozmin x Ionuț Gabriel Ghione x HEAT TRANSFER TH x IOAN-COZMIN

Secure | https://search.proquest.com/docview/1525958932?pq-origsite=gscholar

Apps Bardi Auto Webshop Google Calitate - Universitat orar formatii studiu Outlook - cozmin.m Locuri de munca Ing Locuri de munca Suc Other bookmarks

ProQuest

Basic Search Advanced Search Publications Browse Databases (3)

HEAT TRANSFER THROUGH MINI AND MICRO CIRCULAR CHANNELS OF CPU'S COOLING SYSTEMS

Patuleanu, Liliana; Manolache-Rusu, Ioan-Cozmin; Andronic, Florin; Radion, Ivan. *Journal of Engineering Studies and Research; Bacau* 20.1 (2014): 76-81.

Full text Full text - PDF Abstract/Details References 4

Abstract [Translate](#)

The cooling systems of the CPU have in their competence mini and micro-channels whose performances at intensifying the thermal transfer have been discovered and proved. It is justified the interest in studying the shape of these components, their possibilities of manufacture, the phenomena that occur in channels of small dimensions and processes of heat transfer. The current article aims to realize a brief presentation of mini and micro-channels situated inside the cooling system of the CPU, while in the second part is proposed a calculation model for heat transfer in circular mini and micro-channels. In the case of the analyzed channel, it is realized the modeling of the process of heat exchange in micro-channels. The used model is validated by comparison with numeric results obtained by authors in specialized literature. [PUBLICATION ABSTRACT]

Full Text [Translate](#)

democatia2.pdf ECHIPAMENTE SI L...pdf Echipamente si ins...pdf Show all

EN 1:56 PM 10/3/2017

Universitatea Stefan x USV Bib. - Căutare d x orar formatii studiu x Mail - Ioan-Cozmin x Ionuț Gabriel Ghione x FREON COOLING M x IOAN-COZMIN

Secure | https://search.proquest.com/docview/1627724910?pq-origsite=gscholar

Apps Bardi Auto Webshop Google Calitate - Universitat orar formatii studiu Outlook - cozmin.m Locuri de munca Ing Locuri de munca Suc Other bookmarks

ProQuest

Basic Search Advanced Search Publications Browse Databases (3)

FREON COOLING MINISYSTEM USING CIRCULAR MICROCHANNEL

Patuleanu, Liliana; Manolache-Rusu, Ioan-Cozmin; Burdan, Tiberiu; Andronic, Florin; Radion, Ivan. *Journal of Engineering Studies and Research; Bacau* 20.2 (2014): 61-69.

Full text Full text - PDF Abstract/Details References 23

Abstract [Translate](#)

The necessity of a higher data processing speed was crucial for the advances in computer science. There were created processors, that needed increasingly more power, so that new methods were discovered and more complex systems were created, in order to solve the cooling issue. In this paper, presented are the trials performed on a mini refrigeration plant that used mechanical compression of Freon's, designed to cool electronic components like microprocessors, microcontrollers, graphic stations, or in the case of local cooling in diverse areas, such as bioengineering, optics and nanotechnologies. The refrigeration system was constructed as an experimental set-up and consists of the following: two mini heat exchangers, working both as a condenser and a vaporizer, which are made of circular micro channels, a refrigeration compressor, lamination valve, which contains a circular nano channel and a micro filter. The experimental determinations have proven that, although such a system contains a small quantity of Freon, of the order of milligrams, it reaches temperatures of -44 degrees Celsius.

Full Text [Translate](#)

democatia2.pdf ECHIPAMENTE SI L...pdf Echipamente si ins...pdf Show all

EN 1:57 PM 10/3/2017

Handwritten signature or initials in blue ink.

http://www.fim.usv.ro/conf_1/tehnomusjournal/journal2013p.php

Universitatea Stefan x USV Bib. - Căutare d x orari formatii studiu x Mail - Ioan-Cozmin x Ionuț Gabriel Ghione x Facultatea de Ingin x IOAN-COZMIN x

www.fim.usv.ro/conf_1/tehnomusjournal/journal2013p.php

manolache-rusu 2/5

- PASIVE SUSPENSION MODELING USING MATLAB, QUARTER CAR MODEL, IMPUT SIGNAL STEP TYPE**
Authors: Andronic Florin, **Manolache-Rusu** Ioan-Cozmin, Pătuleanu Liliana, Ștefan cel Mare University of Suceava, Romania
- PDF FULL TEXT-
- RESEARCH STUDY OF HARDNESS VALUES OBTAINED WITH DYNAMIC HARDNESS TESTER PROTOTYPE DD01**
Authors: Severin Traian-Lucian, Bănescu Nicolai, Dulucianu Constantin, Severin Lucian, Ștefan cel Mare University of Suceava, Romania
- PDF FULL TEXT-
- EVALUATION OF TERMO-GAS DYNAMIC PARAMETERS FOR ENGINE BRAKE PROCESS**
Authors: **Manolache-Rusu** Ioan-Cozmin, Pătuleanu Liliana, Andronic Florin, Radion Ivan, Ștefan cel Mare University of Suceava, Romania
- PDF FULL TEXT-
- CORROSION BEHAVIOR OF TINNED BRASS**
Authors: Tamara Radu, Anişoara Ciocan, Lucica Balint, Simion Balint, „Dunarea de Jos” University of Galati, Romania
- PDF FULL TEXT-
- THE ADHERENCE OF A ZrO₂/20%Y₂O₃ CERAMIC COATING ON A NI BASE SUPER ALLOY FOR TURBINE BLADES APPLICATION**
Authors: Crîșmaru Ionuț Vasile, Pintilie Geanina Laura, Marian Vasile Lozneau, Paulin Constantin, Papatoiu Biniuc Carmen and Munteanu Corneliu, “Gheorghe Asachi” Technical University of Iasi, Romania
- PDF FULL TEXT-
- PRACTICAL ASPECTS OF SECURITY LEVEL ASSESSMENT WORK FOR GAS TRANSPORT AND DISTRIBUTION NETWORKS**
Authors: Andrei Acioabanței, Constantin Militaru, Nancy M Khassawneh, Crinel Viadoli, GDF Suez Energy Romania, Romania
- PDF FULL TEXT-

democatia2.pdf ECHIPAMENTE SI L...pdf Echipamente si ins...pdf Show all

2:01 PM 10/3/2017

Universitatea Stefan x USV Bib. - Căutare d x orari formatii studiu x Mail - Ioan-Cozmin x Ionuț Gabriel Ghione x Facultatea de Ingin x IOAN-COZMIN x

www.fim.usv.ro/conf_1/tehnomusjournal/journal2013p.php

manolache-rusu 2/5

- HEAT TRANSFER THROUGH THE COMPONENTS OF CPU'S HEAT SINK**
Authors: Pătuleanu Liliana, **Manolache-Rusu** Ioan-Cozmin, Andronic Florin, Radion Ivan, Ștefan cel Mare University of Suceava, Romania
- PDF FULL TEXT-
- MONITORING AND CONTROL TECHNIQUES OF THE INSTALLATIONS ON SMART FACTORY**
Authors: Birsan Dan Catalin, Florin Ioan, Mircea Octavian, “Dunarea de Jos” University of Galati, Romania
- PDF FULL TEXT-
- EFFECT OF EXHAUST VALVE TIMING AND BOOST PRESSURE ON ENGINE BRAKE PERFORMANCE**
Authors: **Manolache-Rusu** Ioan-Cozmin, Traian Lucian Severin, Pătuleanu Liliana, Andronic Florin, Ștefan cel Mare University of Suceava, Romania
- PDF FULL TEXT-
- VIRTUAL LABORATORY FOR UNDERWATER NOISE ATTENUATION**
Authors: V. Popovici, Delicia Arsene, C. Borda, M. Marinescu, L. Butu, M. Arsene, Universitatea “Politehnica” București, Romania
- PDF FULL TEXT-
- HEAT TRANSFER IN THE COOLER - CPU INTERFACE**
Authors: Pătuleanu Liliana, Andronic Florin, **Manolache-Rusu** Ioan-Cozmin, Radion Ivan, Ștefan cel Mare University of Suceava, Romania
- PDF FULL TEXT-
- PROPOSED WORKFLOW FOR OBTAINING A 3D SOLID MODEL OUT OF POINTS CLOUDS FOR A CONNECTING ROD**
Authors: Mihalache Marius-Andrei, Nagit Gheorghe, Ripanu Marius-Ionuț, Gheorghe Asachi Technical University of Iasi, Romania
- PDF FULL TEXT-

democatia2.pdf ECHIPAMENTE SI L...pdf Echipamente si ins...pdf Show all

2:01 PM 10/3/2017