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$R_{61}=2$

XI. a* U okviru projekta ON144002 radi seminar Nonlinear Dynamics - Milutin Milankovic na Mašinskom fakultetu. Vidi publikaciju: Booklet of Abstracts - Minisymposium - Integrity of Dynamical Systems- ECF16 ' 2006.

XII. Ćlanstvo u redkacijama časopisa, uredništvima, naučnim društvima

Facta Universitatis Series Mechanics, Automatic Control and Robotics, University of Niš (1990-)
Facta Universitatis Series Living and Working Environmental Protection, University of Niš (1995-)
Facta Universitatis Series Mechanical Engineering, University of Niš (1993-)
Neurosciences letters, Elsevier, Journal of Sound and Vibrations, Elsevier,
European Polymer Journal,Elsevier,
FME Transaction, Faculty of Mechanical Engineering Universitz of Belgrade,
Material Letters, Elsevier,
Journal Nonlinear Analysis - Theory, Methods and Applications, Series B: Real-world Applications, Pergamon Press,
Signal Processing, Elsevier,
Journal of Porous Materials, Springer
ENOC 2005, EuroMech
and other.

Scientific Societies:

American Academz of Mechanics
Member of GAMM – Germany (since 1972)
Member of Tensor Society - Japan
Member of International ASME – International American Society of Mechanical Engineers USA
Member of European Society for Mechanics – EuroMech
Member of M.C.Chaki Centre for Mathematics and Mathematical Sciences – Calcutta, India
Member of SSM'JDM
Member of SITJ
Member of JUPIM

Debeljkovic, Lj. D., *editor*, **HIPNEF 2006 – 30.Scientific Expert Conference with International Participants,** *Proccedings*, Vrnjacka Banja, May 24 – 26 2006 (in English and Serbian), pp. 620.

XIII. Učešće projektima SANU i NANU (Ukrajina) i u inostranim istraživačkim projektima (Nemačka)

XI.1. Projekat SANU i NANU (Ukrajina)- *potpisam ugovor*
Veljko A. Vujičić
Hedrih (Stevanović) Katica
Teme
* Qualitative, analytical and asymptotical theory of differential and functional-differential equations, ciji su nosioci Matematicki institut NANU (Kiev) i Matematicki institut SANU (Beograd) (Rukovodioci projekata sa ukrajinske strane A.M. Samolenko i O.M.Sarkovski)

* Investigation of periodical, asymptotical motions and oscillations of complicated mechanical systems and connected problems of chaotic regimes appearence in nonlinear systems, ciji su nosioci Institut za primenjenu matematiku i mehaniku NANU (Donetsk) i Matematicki institut SANU (Beograd) (Rukovodioci projekata sa ukrajinske strane A.M. Kovaljov)

* Forced oscillations research for hybrid mehanical systems with application to classical and celestial mecanics, ciji su nosioci Institut za primenjenu matematiku i mehaniku NANU (Donetsk) i Matematicki institut SANU (Beograd) (Rukovodioci projekata sa ukrajinske strane A.M. Kovaljov)

XI.2. Projekat:
ENTWICKLUNG EINES FLEXIBLEN VIRTUAL-REALITY-OPERATIONS-SIMULATORS ZUR AUSBILDUNG UND INDIVIDUELLEN OPERATIONSPLANUNG BEIM EINSATZ IN DER LAPAROSKOPISCHEN CHIRURGIE UND VERWANDTEN FACHGEBIETEN", Institut für Mechanik, Otto-von-Guericke Universität, Magdeburg, 2006. –
Učesnici Dragan Marinković
Tamara Nestorović

XIV. Subject: Citate
 **

 * Hedrih (Stevanović) K., Filipovski A., (2002), *Longitudinal Vibration of a Fractional Derivative Order Rheological Rod with Variable Cross Section*, Facta Universitatis, Series Mechanics, Automatic Control and Robotics, Vol. 3 No. 12, 2002. pp.327-350. YU ISSN 0534-2009.
http://facta.junis.ni.ac.yu/facta/macar/macar2002/macar2002-02.html
 * Cited (quoted) in:
 Jakšić N., Boltežar M., (2005), Viscously damped transverse vibrations of a moving string, Journal of Mechanical Engineering – Strojniški vestnik, 560-569. **ISI List**

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19. Hedrih (Stevanovic′) K.: Interpretation of the transfer of energy from high-frequency to low-frequency modes by averaging asymptotic method Krilov-Bogolybov-Mitropolsky. In.: Proc. of the Second International Conference "Asymptotics in Mechanics", pp. 97-104. Saint-Petersberg State Marine Technological University, Saint-Petersberg (1997)

20. Hedrih (Stevanovic′) K.: Multifrequency forced vibrations of thin elastic shells. In: CD Proc. of the Fifth EUROMECH Nonlinear Dynamics Conference, pp. 2417-2426. Eindhoven University of Technology (2005)

* Cited (quoted) in:

Kozmin A., Mikhlin Yu. and C. Pierre, Transient in a two DOF nonlinear Systems, Nonlinear Dynamics, 2006; **ISI List.**

In the review paper:
Irschik Hans and Holl J Helmut, (2005), Mechanics of Variable-mass systems - Part 1: Balance of Mass and Linear momentum, **Applied Mechanics Reviews**, ASME, Vol. 57,No. March 2004, pp. 145-160.

Cit. [64] Musicki Dj.,(1999), General energy change law for systems with variable mass, Eur. J. Mechanics A/Solids 18,719-730.

In the paper:
Djordje **Mušicki, Extended Lagrangian formalism and the corresponding energy relations** • ARTICLE, *European Journal of Mechanics - A/Solids, Volume 23, Issue 6, November-December 2004, Pages 975-991 ISSN* 0997-7538.
4 papers by Veljka A. Vujičića are cited.

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6VKW-4DBT0WJ-1&_user=1793222&_handle=B-WA-A-W-AY-MsSAYWW-UUA-AAUCZYYBWW-AAUBWZEAWW-YAUVACYUV-AY-U&_fmt=full&_coverDate=11%2F01%2F2004&_rdoc=7&_orig=browse&_srch=%23toc%236133%232004%23999769993%23525116!&_cdi=6133&view=c&_acct=C000053038&_version=1&_urlVersion=0&_userid=1793222&md5=836739cbf925c55f30d165abf0997f01

Autocitations:
Hedrih (Stevanović) K.,
Nonlinear Analysis 63 (2005) 854-871, Elsevier, Autocitations -15.
ENOC 2005 Proceedings, Eindhoven, Holand, Autocitations -22 +12=34.
Chaotic Dynamics and Control of Systems and Processes in Mechanics (Eds: G. Rega, and F. Vestroni), p. 37-45. **in Series Solid Mechanics and Its Applications**, **Editerd by G.M.L.Gladwell, Springer**,. Autocitations -4.

Hedrih (Stevanovic′) K.: veliki broj samocitata u časopisima sa visokim impact faktorom (preko 30 u 2006 I 2007).

XIII. Project Leader Katica (Stevanović) Hedrih give series of the Plenary or Invited lectures and was member of scientific Committees or Organizer of Minisymposia or invited participant as session chairman in area of Project research results at following European or international scientific meetings:
1* The 16th European Conference of Fracture – *Integrity of Dynamical Systems* Alexandroupolis Greece 2006;
2* IFNA – Elsevier Journal Nonlinear Analysis Symposia – *Hybrid Systems and Applications*, University of Luisiana, Lafayette, USA 2006;
3* The 9th International Conference on Tensor Society on *Differential Geometry, Functional and Complex Informatics and their Applications,* Sapporo, September 4-8, 2006. Hokkaido Tokai University Sapporo;
4* Conference *Aplied Mathematics and Mechanics* KPH, Kharkov 2006;
5* 2nd IFAC Workshop on *Fractional Differentiation and its Applications*, 19-21 July, 2006, Porto, Portugal,
as well as Contributed Lectures:
6* Eiromech - *European Solid Mechanics Conference* ESMC 2006 – Budapestm Hungary;
7* SEECCM 06 –First South-East European Conference on *Computational Mechanics*, Kagujavac 2006.

XV. Ostali radovi

Papers published in the national journals

[1`] Debeljkovic, Lj. D., M. B. Jovanovic, S. A. Milinkovic, V. Drakulic, "**On Some Specific Features of Linear Discrete Descriptor Systems**", *NTP* (YU), Vol. L III, No. 4, (2003), pp. 53 − 63.

[2] Stojanovic, S. B., D. Lj. Debeljkovic, "**On the Asymptotic Stability of Linear Discrete Time Delay Systems**", *Facta Universitatis* (YU), Series Mech. Eng., Vol. 2, No. 1, (2004), pp. 1 − 12.

[3] Debeljkovic, Lj. D., M. B. Jovanovic, Lj. A. Jaćić, "**Transfer Function Matrix and Fundamental Matrix of Linear Singular Descriptive Systems** ", *NTP* (YU), Vol. L IV, No. 1, (2004), pp. 77 − 91.

[4] Buzurovic, I., D. Lj. Debeljkovic, Lj. D.,   "**Synthesis of generalized linear singular system using global proportional-differential feedback** ", *NTP* (YU), Vol. L IV, No. 2, (2004), pp. 77 − 91.

[5] Debeljkovic, Lj. D., "**Asymptotic Stabilty of Singular Continuous Time Delayed System** ", *NTP* (YU), Vol. LVI, No. 1, (2006), pp. 14 − 27.

Papers published in the national Conferences

[1] Debeljkovic, Lj. D., "**Asymptotic Stabilty of Singular Continuous Time Delayed System** ", *NTP* (YU), Vol. LVI, No. 1, (2006), pp. 14 − 27.
[2] Skoko, D., B. Kiković, D.Lj.Debeljković, **"Modeling the road vehicle with hydrodynamics brakes "**, *Proc. HIPNEF*, (YU), (in Serbian), Vrnjačka Banja, (Serbia), May 24 − 26, (2006), pp. 61 − 68.

[3] Debeljković, D. Lj. A. Jacić, N. Višnjić **"Lyapunov stability theory ' a quite new approach : Discrete descriptive time delayed systems**, Vrnjačka Banja, (Serbia), May 24 − 26, (2006), pp. 341 − 350.

[4] Ž. Djurišić, N. Rajaković, **D. Mikičić**, M. Bubnjević, "Mapa vetroenergetskog potencijala Vojvodine ", Energija, br. 1-2, mart, 2007. ISSN: 0354-8651, str 118 − 120.,

[5[Hedrih (Stevanović), K. , (Edited, 2007), **Nonlinear Dynamics and Aleksandr Mikhailovich Lyapunov** (1857 − 1918),

Dedicated to 150th anniversary of academician A.M. Lyapunov, Scientific Technical Review,Vol.LVII,No.1,2007, pp; 1-10.

XVI. Rukopisi

[1] Hedrih (Stevanović) K., Veljović Lj., *NONLINEAR DYNAMICS OF THE HEAVY GYRO-ROTOR WITH TWO SKEW ROTATING AXES, Prihvaćeno za* KONGRES TEORIJSKE I PRIMENJENE MEHANIKE, Kopaonik 2007.
http://www.ssm.org.yu/congress2007/authors.html   ssm.congress2007@sf.bg.ac.yu

[2] Hedrih (Stevanović) K., Knežević R., PLIVANJE SUNÈEVOG ZUPÈANIKA KAO UTICAJNI FAKTOR DINAMIKE PLANETARNOG PRENOSNIKA, *Prihvaćeno za* KONGRES TEORIJSKE I PRIMENJENE MEHANIKE, Kopaonik 2007.
http://www.ssm.org.yu/congress2007/authors.html   ssm.congress2007@sf.bg.ac.yu

[3] Ugrčić, M., Some Characteristics of Arming Process Depending on Design Parameters of SAD, 12th IFToMM World Congress, Besançon (France), June18-21, 2007.

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[6] Ugrčić, M.: "*Editorial and publishing activities on the Military Technical Institute – Actual situation and future aims*", VTI-08-1234-1234567, Belgrade, 2006. (in Serbian).

[7] Julka Knezevic-Miljanovic: On a Nonlinear Differential Equation with periodic boundary conditions, Applied Mathematical Modelling (predato za recenziju 2006 god)

[8] Julka Knezevic-Miljanovic, Ka~estvennwe svojstva uravneni] >mdena – Faulera, Matematicki vesnik, 2006 god
YU ISSN 025-5165   UDK 517.911

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[10] Vujičić A. Veljko, Kriticka analiza rukopisa ``O jednom opstem zakonu uzajamnom dejstvu za centralne sile``, Matematicki institut SANU, Seminar za istoriju i filozifiju matematike i mehanike, Beograd, oktobar 2006, str. 45, (stampano u 30 primeraka). *(Po mojoj oceni (autora) ovo je bolje od mnogih radova u najvisim casopisima)*

[11] Vujičić A. Veljko, Nekotorue problemy razvitiya teorii nelinejnoj mehaniki. Special Issue of the Journal ``Nonlinear Dynamics and Systems Theory`` (9. april 2006)

[12] Vujičić A. Veljko, TENSORNOE INTEGRIROVANIE V MEHANIKE., PRIMLJENO ZA SAOPSTENJE I PUBLIKOVANJE ZA INTERNACIONALNI KPNGRES NELINEARNE ANALIZE, Saint PETERSBUDG, 2007.

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. [7] Vujičić A. Veljko, Hamilton'sinverse problem; Zbornik radova I srpskog (26.yu) Kongresa teorijske i primenjene mehanike, (Predato i primljeno 2006 za stampu martamarta 2007.

10. V. Vujicic and A. Tomic, The paradox of the Lunar orbit:One possible solution. (Prihvaceno 2006, za Kongres mehanike Kop'07.

XVII. Teze u iyradi pod mentorstvom istraživača sa projekta

Doktorske i magistarske teze kod kojih je mentor član projekta a kandidat nije mladi istraživač sa projekta:
1 Mentor Katica (Stevanovic) Hedrih*
dva doktorata u oblasti mehanike u izradi (Ljiljana veljović i Dragan Jovanović) , a jedan od njih je fazi tehničke dorade za predaju na ocenu. (Mr Dragan Jovanovic)
jedna magistarska te za Julijana Simonović (u poslednjoj fazi dorade za predaju)

2 Mentor Miroslav Radovanovic,* magistranst Anđela Lazarević, Automatizovano projektovanje tehnološkog procesa rezanja plazmom, magistarski rad, Univerzitet u Nišu, Mašinski fakultet, Niš, 2006
(mentor: Miroslav Radovanović)

3* Doktorske disertacije (mentor Vera Nikolić)

1. mr Dejan Dimitrijević : DINAMIČKI MODELI NAPONSKOG I DEFDORMACIONOG STANJA ELEMENATA ZUPČASTIH PRENOSNIKA SNAGE (predata disertacija)

2. mr Katarina Maksimović : ČVRSTOĆA I PROCENA VEKA ELEMENATA MAŠINSKIH KONSTRUKCIJA PRI OPŠTEM SPEKTRU OPTEREĆENJA (uskoro predaja disertacije)

3. mr Mladen Radojković: NAPONSKO DEFORMACIONO STANJE U ZONAMA GEOMETRIJSKIH DISKONTINUITETA ELEMENATA MAŠINSKIH KONSTRUKCIJA (uskoro predaja disertacije)

4. mr Zorica Đorđević: ANALIZA STANJA NAPONA I STANJA DEFORMACIJA KOD VRATILA OD KOMPOZITNIH MATERIJALA (uskoro predaja disertacije)

5. mr Daniela Ristić: KONCENTRACIJA NAPONA I POJAVA INICIJALNIH OŠTEĆENJA
U PODNOŽJU ZUPCA ZUPČANIKA"

6. mr Milan Stanojević: POVEĆANJE NOSIVOSTI I STEPENA ISKORIŠĆENJA VIŠESTEPENIH ZUPČASTIH   PRENOSNIKA SNAGE

4* Mentor Dragutin Debeljkovic
a) Doktorske i magistarske teze kod kojih je mentor član projekta a kandidat nije mladi istraživač sa projekta: 2

PRILOG KoBSON

XVIII. DOPUNSKI - spisak publikovanih refernci publikovanih u 2006 i neocenjenih u 2005.

[1] Hedrih (Stevanović) K., (2006), *Transversal Vibration of a Parametrically Excited Beam: Influence of Rotatory Inertia and Transverse Shear on Stochastic Stability of Deformable Forms and Processes*, ©Freund Publishing House Ltd. *International Journal of Nonlinear Sciences and Numerical Simulation*, 7(1), 117-124, 2006. **Impact Factor 2,345 .**

[2] Hedrih (Stevanović) K., (2006), *Transversal Vibrations of Double-Plate Systems*, **Acta Mechanica Sinica, Springer**, (2006) 22, pp. 487-501 (hard cower and on line). **ISI List**

[3] Hedrih (Stevanović) K., (2006), *Modes of the Homogeneous Chain Dynamics*, **Signal Processing**, **Elsevier,** 86(2006), 2678-2702.. ISSN: 0165-1684 www.sciencedirect.com/science/journal/01651684 **ISI List**

[4] Hedrih (Stevanović) K., (2006), Vukota Babović, Dragan Šarković, (2006), An auxi liary size distribution model for the ultrasonically produced water droplets, **Experimental Thermal and Fluid Science - ETF, Elsevier**, Volume 30, Issue 6, June 2006, Pages 559-564. http://www.elsevier.com/locate/etfs **ISI List**

[5] Hedrih (Stevanović), K., (2006), *Transversal vibrations of the axially moving double belt system with creep layer, Preprints, 2nd* **IFAC** *Workshop on Fractional Differentiation and its Applications*, 19-21 July, 2006, Porto, Portugal, pp.230-235. +CD. IFAC WS 2006 0007 PT, ISBN 972-8688-42-3, 978-972-8688-42-4.ISBN . http;/www.iser.ipp.pl

[6] Hedrih (Stevanović), K., (2006), *Measurements of Dynamical System Integrity and Fracture Mechanics*, Invited Key Lecture in *Fracture of Nano and Engineering Materials and Structures* (p. 1416), Edited by E.E.Gdoutos, Proceedings of the 16th *European Conference of Fracture* (p. 1416), *Springer 2006*, pp. 793-794, plus CD 1-15. ISBN 1-4020-4971-4, BARCOD 9 781402 049712. http://ecf16.civil.duth.gr

[7] Booklet of Abstracts - *Minisymposium - Integrity of Dynamical Systems- ECF16*, Edited by Katica (Stevanović) Hedrih, invited organizer of Minisymposia **IDS-ECF - the 16th European Conference of Fracture**, Greece 2006, Centre for Nonlinear Dynamics and Active Structures, Faculty of Mechanical Engineering University of Niš and Democritus University of Thrace, Xanthi, Greece, 2006. p. 324. ISBN 86-80587-57-5. BarCod 9 788680 587578. COBIS. SR - ID 130756620. UDK 531:01 /048); 530:182(048); 530:42 (048); 53:005.745 (100)

[8] Hedrih (Stevanović) K. and Simonović, J., (2006), *Characteristic Eigen Numbers and Frequencies of the Transversal Vibrations of Sandwich System*, SEECCM 06 –First South-East European Conference on Computational Mechanics, Proceedings, Editors – M. Kojic and M Papadrakakis, Kragujevac, pp. 90-94. + CD. hppt://www.seeccn.kg.ac.yu. ISBN 86-81037-13-7, COBISS.SR-ID 131758092, udc 531/533(082)

[9] Ugrčić Marinko, (2006), *Clock Mechanism as Base of Artillery Safety and Arming Devices,* Invited Lectute in *Fracture of Nano and Engineering Materials and Structures* (p. 1416), Edited by E.E.Gdoutos, Proceedings of the 16th European Conference of Fracture (p. 1416), *Springer 2006*, pp. 799-800, plus CD. ISBN 1-4020-4971-4, BARCOD 9 781402 049712. http://ecf16.civil.duth.gr

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[11] Nestorović T. *Controller Design for the Vibration Suppression of Smart Structures (Ph.D. thesis)***,** Fortschritt-Berichte VDI Reihe 8, Nr. 1071, Düsseldorf: **VDI Verlag** 2005, ISSN 0178-9546, ISBN 3-18-507508-5, http://www.vdi-nachrichten.com/onlineshops/buchshop/literaturshop/langanzeige.asp?vr_id=7095

[12] D. Marinkovic, H. Köppe, U. Gabbert: *Numerically efficient finite element formulation for modeling active composite laminates*, **Mechanics of Advanced Materials and Structures**, Volume 13, Number 5, pp. 379 - 392, 2006.

[13] Atanasovska I. and Nikolić-Stanojević V., (2006), Influence of addendum modification Coefficient of the Gear's Load Capacity, Invited Contribution in **Fracture of Nano and Engineering Materials and Structures** (p. 1416), Edited by E.E.Gdoutos, Proceedings of the 16th European Conference of Fracture (p. 1416), *Springer 2006*, pp. 787-788, plus CD. ISBN 1-4020-4971-4, BARCOD 9 781402 049712. http://ecf16.civil.duth.gr

[14] Maksimović K., Maksimović S., and and Nikolić-Stanojević V., (2006), Modeling of the Surface Cracks and Fatigue Life Estimation, Invited Contribution in **Fracture of Nano and Engineering Materials and Structures** (p. 1416), Edited by E.E.Gdoutos, Proceedings of the 16th European Conference of Fracture (p. 1416), *Springer 2006*, pp. 795-796, plus CD. ISBN 1-4020-4971-4, BARCOD 9 781402 049712. http://ecf16.civil.duth.gr

[15] Nikolić R. and Veljković J.M, (2006), *Some Aspects Dynamics Interfacial Cracks Growth*, Invited Contribution in *Fracture of Nano and Engineering Materials and Structures* (p. 1416), Edited by E.E.Gdoutos, Proceedings of the 16th European Conference of Fracture (p. 1416), *Springer 2006*, pp. 807-808, plus CD. ISBN 1-4020-4971-4, BARCOD 9 781402 049712. http://ecf16.civil.duth.gr

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European Conference of Fracture (p. 1416), *Springer 2006*, pp.797-798, plus CD Full paper . ISBN 1-4020-4971-4, BARCOD 9 781402 049712. http://ecf16.civil.duth.gr

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http://facta.junis.ni.ac.yu/facta/macar/macar200501/macar200501-06.pdf

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http://www3.interscience.wiley.com/cgi-bin/abstract/112098502/ABSTRACT

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http://www3.interscience.wiley.com/cgi-bin/abstract/112100644/ABSTRACT

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[26] ***Development of a smart finite shell element and its numerical verification***, Marinković D., Köppe H., Gabbert U., *First South-East European Conference on Computational Mechanics*, *SEECCM-06*, in Kragujevac, june 2006., Proceedings, Editors – M. Kojic and M Papadrakakis (zbornik radova je kod Profesora Gabbert-a, a on je na putu, 2 nedelje na Kubi, tako da ne znam broj strana, ako Vam nije tesko pogledajte u zborniku paginaciju)

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