

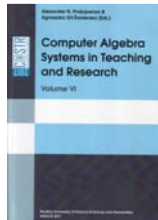
Spisak referenci u 2017

Katica (Stevanović) R. Hedrih

2017

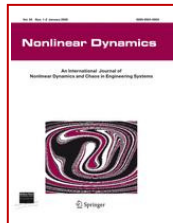
Katica R (Stevanovic) Hedrih, *Dinamika vibro-udarnih sistema tela u kotrljanju*, 45 minutno predavanje u okviru Ciklusa javnih predavanja Srpske akademije nauka i umetnosti u Ogranka SANU u Niu, 13 novembra 2017, http://www.mi.sanu.ac.rs/novi_sajt/research/projects/174001a.php
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Hedrih (Stevanović) Katica, Generalized rolling pendulum along curvilinear trace: Phase portrait, singular points and total mechanical energy surface, *Computer Algebra Systems in Teaching and Research*, Edited by Alexander Prokopenya and Agnieszka Gil-Swidarska, Publisher Siedlce University of Natural Sciences and Humanities (Siedlce, Poland), 2017, Vol. VI, pp. 204216. ISSN 2300-7397. <http://www.castr.uph.edu.pl>



Hedrih (Stevanović) Katica, Generalized rolling pendulum along curvilinear trace: Phase portrait, singular points and total mechanical energy surface, *Computer Algebra Systems in Teaching and Research*, Edited by Alexander Prokopenya and Agnieszka Gil-Swidarska, Publisher Siedlce University of Natural Sciences and Humanities (Siedlce, Poland), 2017, Vol. VI, pp. 204216. ISSN 2300-7397. <http://www.castr.uph.edu.pl>

Рад је једноауторски и под називом:



Катица (Стевановић) Хедрих, "**Non-linear phenomena in vibro-impact dynamics: Central collision and energy jumps between two rolling bodies**", has been accepted for publication in *Nonlinear Dynamics* (M21a-10 поена).

DOI :10.1007/s11071-017-3988-x

<https://link.springer.com/article/10.1007/s11071-017-3988-x>

ISSN: 0924-090X (print version) ISSN: 1573-269X (electronic version)

http://www.springer.com/engineering/mechanics/journal/11071?detailsPage=pltc_1888917

e

Иако и ја сматрам да је важно шта публикујемо, а не где, ово прихватање мог рада ми је драго, јер сам рад самоиницијативно послала новој редакцији Springer-овог часописа

Nonlinear Dynamics (M21a), koji je najviše kategorije u oblasti mehanike i u prvih deset, a do nedavno ujediničnik je bio po unati profesor Ali Najfeh sa Viržini Tečx, koa sam duoo poznavala, i koji je preminuo početkom ove godine. Rad koji mi je prihvaćen posvetila sam Profesoru Najfexu, sa kojim sam se videla poslednji put, 2010 gđine na konferenciji u Viržini, koju je on organizovao i mene pozvao.

Za profesora Najfexa me veže i jedan od mojih prvih citata u monografijama. Naime 1976 godine citirao je u svojoj svetски poznatoj monografiji **Nonlinear Oscillations** jedan moј rad publikovan u Poljskom časopisu 1974. Tađa sam bila pod imenom Stevanoviћ.

Lično smatram da citat u jednoј ovaквој monografiji vredi više od 300 citata u časopisima sa ISI lite, koji su uglavnom opisni a ne kvalitativni.

After arrival in Nis, and I am reading my e-mails, and I see information that my manuscript-Submission NODY-D-17-01094 titled "**Non-linear phenomena in vibro-impact dynamics: Central collision and energy jumps between two rolling bodies**", has been accepted for publication in **Nonlinear Dynamics** (M21a).

Skr. naslov (ISI) NONLINEAR DYNAM

Rang časopisa u Journal Citation Report-u za period 1981-2016

Starija godišta (1981 – 1992)

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
oblast / impakt faktor	1.045	1.295	1.658	1.741	1.247	3.009	2.419	2.849	3.000	3.464
Engineering, Mechanical	21/107	30/105	17/116	14/122	29/122	5/125	15/128	7/130	8/132	10/130
Mechanics	35/112	44/112	24/123	25/133	51/132	5/135	11/139	8/137	8/135	8/133

Rang časopisa prema PETOGODIŠNEM impakt faktoru 2007-2016

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
oblast / impakt faktor	1.174	1.758	1.784	1.776	1.438	2.640	2.424	2.637	2.915	3.313
Engineering, Mechanical	30/107	19/105	20/116	20/122	31/122	7/125	17/128	14/130	14/132	13/130
Mechanics	41/112	26/112	28/123	30/133	49/132	10/135	16/139	14/137	11/135	10/133

Objašnjenja

Zelena međunarodni časopis izuzetnih vredosti (M21a); časopis koji je prema IF2 rangiran u ICR u svojoj oblasti nauka među prvih 10% časopisa

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
oblast / impakt faktor	1.174	1.758	1.784	1.776	1.438	2.640	2.424	2.637	2.915	3.313
Engineering, Mechanical	30/107	19/105	20/116	20/122	31/122	7/125	17/128	14/130	14/132	13/130
Mechanics	41/112	26/112	28/123	30/133	49/132	10/135	16/139	14/137	11/135	10/133

Objašnjenja	
Zelena	međunarodni časopis izuzetnih vrednosti (M21a); časopis koji je prema IF2 rangiran u JCR u svojoj oblasti nauka među prvih 10% časopisa.
Svetlo zelena	vrhunski međunarodni časopis (M21); časopis koji je prema IF2 rangiran u JCR u svojoj oblasti nauka među prvih 30% časopisa
Plava	istaknuti međunarodni časopis (M22); časopis koji je prema IF2 rangiran u JCR u svojoj oblasti nauka između prvih 30% i 60% časopisa.
Svetlo plava	međunarodni časopis (M23); časopis koji se nalazi na popisu JCR, ali prema IF2 nije u svojoj oblasti nauka rangiran među prvih 60% časopisa.
Kratko objašnjenje	kako se računa impakt faktor možete pronaći na stranici često postavljana pitanja
Objašnjenja ISI lista	možete pronaći na linku Web of Science
Klasifikacija	je napravljena prema Pravilniku o postupku, načinu vrednovanja i kvantitativnom iskazivanju naučnoistraživačkih rezultata istraživača, Službeni glasnik RS, br. 24/2016 (Detaljnije informacije možete pronaći na ovom linku)

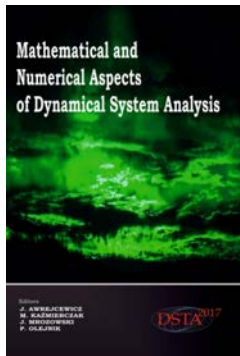
Opis disciplina (na engleskom)	
Engineering, Mechanical	Engineering, Mechanical includes resources on the generation, transmission, and use of heat and mechanical power, as well as with the production and operation of tools, machinery, and their products. Topics in this category include heat transfer and thermodynamics, fatigue



Katica R (Stevanovic) Hedrih, Approximations in an investigation of the vibro-impact dynamics of rolling bodies in successive central collisions on curvilinear trace, book of Absytacys, [ACTA 2017: Approximation and Computation - Theory and Applications](#), Dedicated to Professor Walter Gautschi on the Occasion of his 90th Anniversary, November 30 – December 2, 2017, SASA, Belgrade, Serbia, pp: 25-26.
<http://easychair.org/smart-program/ACTA2017/index.html>

Katica R (Stevanovic) Hedrih, Approximations in an investigation of the vibro-impact dynamics of rolling bodies in successive central collisions on curvilinear trace, book of Absytacys, [ACTA 2017: Approximation and Computation - Theory and Applications](#), Dedicated to Professor Walter Gautschi on the Occasion of his 90th Anniversary, November 30 – December 2, 2017, SASA, Belgrade, Serbia, pp: 25-26.

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MS-09 Nonlinear Dynamics in Engineering Systems

Co-organizers:

Yuri Vladimirovich Mikhlin, *National Technical University "Kharkov Polytechnical Institute"*
Matthew Cartmell, *The University of Sheffield*
Konstantin Vitalievich Avramov, *NAS of Ukraine*

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Hedrih (Stevanović) Katica , **Non-linear dynamics of a heavy mass particle and rolling ball along curvilinear trace of series of circle arcs: Phase trajectory portraits, some analogies and vibro-impacts**, The 9th European Nonlinear Dynamics Conference (ENOC 2017) in Budapest, Hungary, 25-30 June, 2017 in the campus of Budapest University of Technology and Economics. www.congressline.hu/enoc2017/; **ID.342**; <http://www.congressline.hu/enoc2017/abstracts/342.pdf>; ISBN 978-963-12-9168-1

MS-02 Asymptotic Methods

Co-organizers:

Igor V. Andrianov, *Aachen University*
Jan Awrejcewicz, *University of Lodz*
Leonid I. Manevitch, *Russian Academy of Sciences*

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Hedrih (Stevanović) Katica , **Energy method applied to the asymptotic methods of Non-linear mechanics**, The 9th European Nonlinear Dynamics Conference (ENOC 2017) in Budapest, Hungary, 25-30 June, 2017 in the campus of Budapest University of Technology and Economics. www.congressline.hu/enoc2017/; **ID.343**; <http://www.congressline.hu/enoc2017/abstracts/343.pdf>; ISBN 978-963-12-9168-1

MS-13 Nonlinear Dynamics in Biological Systems

Co-organizers:

Gert van der Heijden, *University College, London*
Sachin Goyal, *University of California*
Gergely Röst, *University of Szeged*

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Hedrih Andjelka and Hedrih (Stevanović) Katica , **Analysis of oscillatory motions of chromosomes during anaphase using biomechanical oscillatory model of mitotic spindle**, The 9th European Nonlinear Dynamics Conference (ENOC 2017) in Budapest, Hungary, 25-30 June, 2017 in the campus of Budapest University of Technology and Economics. www.congressline.hu/enoc2017/. **ID.372**., <http://congressline.hu/enoc2017/abstracts.php?page=10>, ISBN 978-963-12-9168-1

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M3c: Andjelka N. Hedrih, Katica (Stevanović) Hedrih

Resonance as potentis mechanism for homolog chromosomes separation through biomechanical oscillatory model of mitotic spindle, The 6th CONGRESS OF SERBIAN SOCIETY OF MECHANICS will be held at Tara Mountain, Hotel Omorika, June 19-21, 2017, Serbia

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Proceedings, The 6th International Congress of Serbian Society of Mechanics, Tara, June 19-21, 2017, Edited by: Mihailo Lazarević et al. Published by Serbian Society of Mechanics and Faculty of Mechanical Engineering, University of Belgrade, Belgrade. ISBN 978-86-909973-6-7. **162-163/ str.**

Katica (Stevanović) Hedrih, **A review: Two models of transversal vibrations of axially moving sandwich multy-belts system** (Katica (Stevanović) Hedrih, **Један преглед: два модела трансверзалних осцилација аксијално покретних сендвич система са више трака**) *Booklet of Abstracts, Mini-Symposium, "Nonlocal theory of mechanical structures"*, Mathematical Institute of the SASA and Project ОИ 174001, Belgrade, 25 April 2017, pp. 9-10. ISBN **978-86-7746-661-9**

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Katica (Stevanović) Hedrih, **A review: Two methods and two models for investigation of stochastic stability of deformable forms and dynamical processes in hybrid systems with complex structures** (Katica (Stevanović) Hedrih, **Један преглед: Две методе и два модела стохастичке стабилности деформабилних форми и динамичких процеса у хибридним системима са комплексним структурама**), *Booklet of Abstracts, Mini-Symposium: Stochastic Vibrations and Fatigue: Theory and Applications*, Project ОИ 174001 in Mathematical Institute of SASA and Bilateral Project 2015-2017, No.: 3 – 19, Faculty of Mechanical Engineering, University of Belgrade and School of Science, Northwestern Polytechnic University, Xi'an, Shaanxi, MI SASA, Belgrade, Serbia, July 4, 2017, at 11h, Auditoria I, pp. 20-21. ISBN **978-86-7746-672-5**

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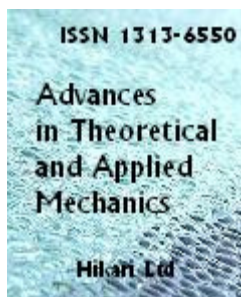
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ADVANCES IN THEORETICAL AND APPLIED MECHANICS,

Articles in Press in Vol. 10, 2017, no. 1 (forthcoming issue)

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Katica (Stevanović) HEDRIH, On the Memory of the late Milev Prvanović: My remembering of academician Milev Prvanović (July 16, 1929 - February 12, 2016), Program and Absytracts of **The 15th INTERNATIONAL CONFERENCE OF TENSOR SOCIETY DIFFERENTIAL GEOMETRY AND ITS APPLICATIONS, AND INFORMATICS BESIDES, Shinshu University, Aug. 21-25, 2017,** p. 1. and p.3 withh additional Appendix and PDF file.

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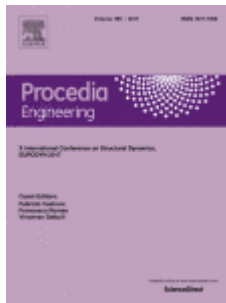
Corresponding author: Dr. Katica R. (Stevanović) Hedrih

First author: Dr. Katica R. (Stevanović) Hedrih

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Volume 199, Pages 1-3588 (2017)

X International Conference on Structural Dynamics, EURO DYN 2017

Edited by Fabrizio Vestroni, Francesco Romeo and Vincenzo Gattu

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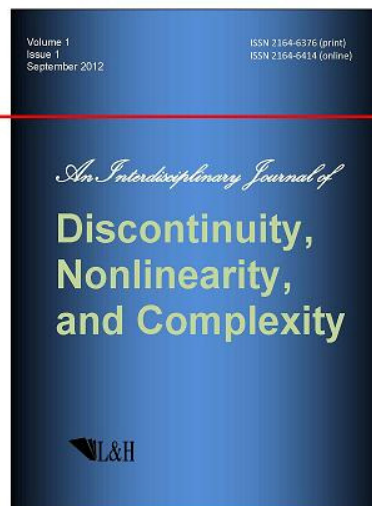
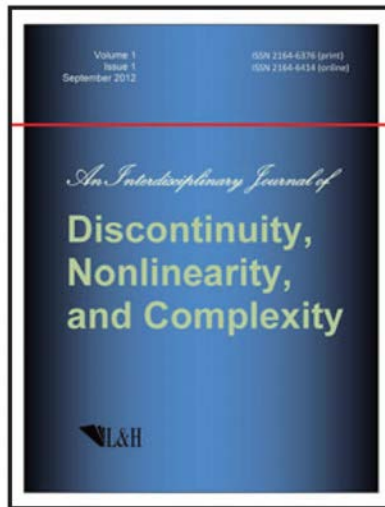
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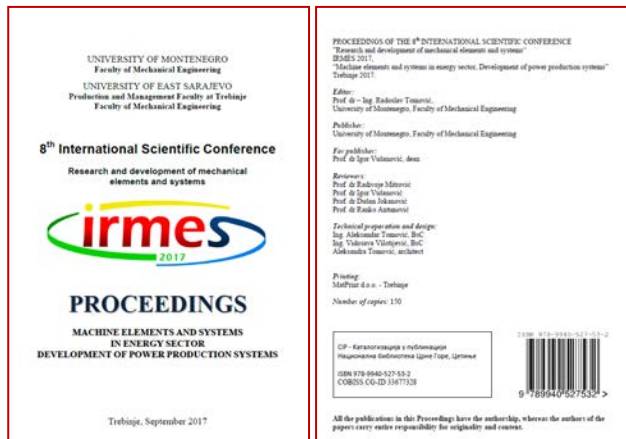
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I. Atanasovska, K. (Stevanović) Hedrih: COMPARATIVE ANALYSIS OF VIBRO-IMPACT OSCILLATIONS OF SPUR GEAR PAIR FOR VARIATION OF GEARS TRANSMISSION RATIO, *Proceedings of the 8th International Scientific Conference „Research and development of mechanical elements and systems” IRMES2017*, Trebinje, Republika Srpska, Bosnia and Herzegovina, September 7th - 9th, 2017, ISBN 978-9940-527-53-2, COBISS.CG-ID 33677328, *Publisher*: University of Montenegro, Faculty of Mechanical Engineering, pp.209-214.

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Katica (Stevanović) Hedrih, **TRIGGER OF COUPLED SINGULARITIES IN DYNAMICS OF GENERALIZED ROLLING PENDULUM AND IN ANALOGOUS DYNAMICS**, 45 minutno predavanje u okviru seminara: **Seminar on Computer Science and Applied Mathematics**, *Matematički institut SANU*, [UTORAK, 26.12.2017. u 14:15, Sala 301f, MI SANU, Kneza Mihaila 36,](http://www.mi.sanu.ac.rs/novi_sajt/seminars/programs/seminar2.dec2017.php)
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Katica (Stevanović) Hedrih, **SARADNJA NAUČNIKA IZ SRBIJE I JAPANA**, 45 minutno predavanje u okviru seminara: **Seminar for History and Philosophy of Mathematics and Mechanics**, *Matematički institut SANU, Beograd*, [UTORAK, 24.10.2017. u 12:15 sati,](http://www.mi.sanu.ac.rs/novi_sajt/seminars/programs/seminar12.oct2017.php)
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Katica (Stevanović) Hedrih. **TRI UPRAVNIKA ODELJENJA ZA MEHANIKU**, 45 minutno predavanje u okviru seminara: **Seminar for History and Philosophy of Mathematics and Mechanics**, *Matematički institut SANU, Beograd*, [UTORAK, 28.03.2017. u 12:15 sati](http://www.mi.sanu.ac.rs/novi_sajt/seminars/programs/seminar12.mar2017.php)
http://www.mi.sanu.ac.rs/novi_sajt/seminars/programs/seminar12.mar2017.php

Katica R. (Stevanović) Hedrih, **ANGULAR VELOCITY AND INTENSITY CHANGE OF THE BASIC VECTORS OF POSITION VECTOR TANGENT SPACE OF A MATERIAL SYSTEM KINETIC POINT: 8 EXAMPLES**, 45 minutno predavanje u okviru seminara: **Seminar for RELATIVITY THEORY AND COSMOLOGICAL MODELS**, *Matematički institut SANU, Beograd*, [SREDA, 22.03.2017. u 11:00, Sala 301f, MI SANU, Kneza Mihaila 36,](http://www.mi.sanu.ac.rs/novi_sajt/seminars/programs/seminar19.mar2017.php)
http://www.mi.sanu.ac.rs/novi_sajt/seminars/programs/seminar19.mar2017.php

Organizacija Minisimpozijuma: Katica R. (Stevanovic) Hedrih:

Mini-symposium on Computational Aspects of Classical and Celestial Mechanics, Stability and Motion Control is organized in the framework of the workshop

u okviru Computer Algebra Systems in Teaching and Research (CASTR'2017) , Siedlce, Poland, October 18 – 22, 2017.

<http://www.castr.uph.edu.pl>

Invited organizers of Mini-symposium:

Pavel S. Krasilnikov (Moscow, Russia),

Katica R. (Stevanovic) Hedrih (Belgrade, Sera),

Alexei A. Tikhonov (St. Petersburg, Russia)

<http://www.castr.uph.edu.pl/scope>

Siedlce University of Natural Sciences and Humanities (Siedlce, Poland)

Warsaw University of Life Sciences - SGGW (Warsaw, Poland)

http://www.mi.sanu.ac.rs/novi_sajt/research/projects/Strucni_izvestaj_CASTR.pdf

http://www.mi.sanu.ac.rs/novi_sajt/research/projects/174001a.php

Organizacija Minisimpozijuma: Katica R. (Stevanovic) Hedrih: and Ivana Atanasovska,

Mini-symposium on Nonlinear Dynamics u okviru

The 6th CONGRESS OF SERBIAN SOCIETY OF MECHANICS will be held at Tara Mountain, Hotel Omorika, June 19-21, 2017, Serbia

http://www.ssm.org.rs/congress_2017/home.html

Katica R. (Stevanovic) Hedrih: **Organizacija serije jednodnevnih minisimpozijuma Projekta ON174001:**

Uredjivanje knjiga apstrakata serije jednodnevnih minisimpozijuma Projekta ON174001:

Katica (Stevanović) Hedrih and all., Editor of *Booklet of Abstracts, Mini-Symposium: Stochastic Vibrations and Fatigue: Theory and Applications*, Project OI 174001 in Mathematical Institute of SASA and Bilateral Project 2015-2017, No.: 3 – 19, Faculty of Mechanical Engineering, University of Belgrade and School of Science, Northwestern Polytechnic University, Xi'an, Shaanxi, MI SASA, Belgrade, Serbia, July 4, 2017, at 11h, Auditoria I, pp. 3-6. ISBN 978-86-7746-672-5

http://www.mi.sanu.ac.rs/novi_sajt/research/projects/174001a.php

Katica (Stevanović) Hedrih and Ivana Atanasovska, Editor of *Booklet of Abstracts, Mini-symposium: "Contact Mechanics: Theory and Applications"*, Mathematical Institute of SASA and Project OI174001, Belgrade, Serbia, March 14, 2017, from 10:30-19:00h, room II, first floor, Kneza Mihaila 36

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