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2023 - 5

Differential equations and algebras

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Science and education: new approaches and perspectives. Selective collection of abstracts

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Differential Equations and Algebras

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On stability of some examples of ternary differential critical systems with quadratic nonlinearities

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Professor Alexandru Subă on his 70th birthday

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Stability conditions of unperturbed motion governed by critical three-dimensional differential system of darbox type with nonlinearities of degree four

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Mathematics and Information Technologies: Research and Education

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Disponibil online 25 April, 2024. Descarcări-0. Vizualizări-65

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Problems of the theory of invariants and Lie algebras applied in the qualitative theory of differential systems

Popa Mihail

Vladimir Andrunachievici Institute of Mathematics and Computer Science

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Stability of unperturbed motion governed by the ternary differential system of Lyapunov-Darboux type with nonlinearities of degree four

Neagu Natalia¹, Popa Mihail², Orlov Victor³

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³ Technical University of Moldova

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Stability problems of the unperturbed motion governed by the ternary differential system of Lyapunov-Darboux type with nonlinearities of degree four

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Conference on Applied and Industrial Mathematics CAIM 2022

Nr. 5(11) / 2015 / ISSN 1857-4580

Disponibil online 19 December, 2022. Descarcări-2. Vizualizări-293

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Four-dimensional reductive Lie algebra for the ternary differential system with quadratic nonlinearities and its perspectives in the study of this system

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Actual Problems of Mathematics and Informatics

Nr. 8/1(260) / 2013 / ISSN 1810-3081

Disponibil online 25 June, 2021. Descarcări-3. Vizualizări-369

Lyapunov's stability of the unperturbed motion governed by the $s_3(1,3)$ differential system of Darboux type

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Stability conditions of unperturbed motion governed by critical three-dimensional differential system of Darboux type with cubic nonlinearities

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Mathematics and Information Technologies: Research and Education

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Stability conditions of unperturbed motion governed by critical three-dimensional differential system of Darboux type s3(1; 2; 3)

Neagu Natalia¹, Popa Mihail^{2,3}

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Nr. 4(67) / 2014 / ISSN 1812-2566 / ISSNe 2587-4063

Disponibil online 20 September, 2022. Descarcări-0. Vizualizări-240

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About an algebraic vision on the center and focus problem

Popa Mihail¹, Pricop Victor²

¹ Vladimir Andrunachievici Institute of Mathematics and Computer Science,

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Сучасні проблеми диференціальних рівнянь та їх застосування Матеріали міжнародної наукової конференції, присвяченої 100-річчю від дня народження професора С.Д. Ейдельмана

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Comitants of Lie algebra of rotation groups for ternary system with quadratic nonlinearities

Popa Mihail¹, Pricop Victor²

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Învățământ superior: tradiții, valori, perspective Științe Exacte și ale Naturii și Didactica Științelor Exacte și ale Naturii

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Center-affine invariant stability conditions of unperturbed motion governed by critical cubic differential system

Neagu Natalia¹², Orlov Victor³⁴, Popa Mihail⁴¹

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Proceedings IMCS-55 The Fifth Conference of Mathematical Society of the Republic of Moldova

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Disponibil online 1 November, 2019. Descarcări-2. Vizualizări-660

Invariant conditions of stability of unperturbed motion governed by critical differential systems s(1, 2, 3)

Neagu Natalia¹, Orlov Victor¹², Popa Mihail²

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On a case of stability of unperturbed motion governed by the ternary differential critical system with quadratic nonlinearities

Neagu Natalia¹, Popa Mihail²³

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Popa Mihail, Pricop Victor

Vladimir Andrunachievici Institute of Mathematics and Computer Science

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2018 - 2

Invariant conditions of stability of unperturbed motion described by cubic differential system with quadratic part of Darboux type

Neagu Natalia¹², Orlov Victor³⁴, Popa Mihail³

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Nr. 2(72) / 2014 / ISSN 1857-2073 / ISSNe 2345-1033

Disponibil online 31 May, 2022. Descarcări-2. Vizualizări-280

The center-focus problem: algebraic solutions and Hypotheses:

Popa Mihail, Pricop Victor

¹ Institutul de Matematică și Informatică al AȘM,

Chișinău, 2018 / ISBN 978-9975-62-416-9

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2017 - 3

Проблемы центра и фокуса: алгебраические решения и гипотезы:

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Invariant conditions of stability of unperturbed motion for differential systems with quadratic nonlinearities in the critical case

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Invariant conditions of stability of unperturbed motion governed by some differential systems in the plane

Neagu Natalia¹, Orlov Victor²³, Popa Mihail³

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Buletinul Academiei de Științe a Republicii Moldova. Matematica

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Disponibil online 10 February, 2018. Descarcări-4. Vizualizări-874

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On periodic solutions of the four-dimensional differential system of Lyapunov-Darboux type with quadratic nonlinearities

Orlov Victor^{1,2}, Popa Mihail²

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² Institute of Mathematics and Computer Science ASM

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Prolonged holding and cyclic loading indentation of aluminophosphate glass: kinetics of deformation

Răzlog (Belei) Ina¹, Şikimaka Olga¹, Grabco Daria¹, Sava Bogdan Alexandru², Boroica Lucica², Elişa Mihail³, Pyrtsac Constantin¹, Prisăcaru Andrian¹, Popa Mihail¹

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2014 - 2

Algebraic methods to the center-focus problem

Popa Mihail¹, Pricop Victor²

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Învăţământul superior din Republica Moldova la 85 de ani Probleme actuale ale ştiinţelor exacte şi ale naturii

Nr. 5(317) / 2010 / ISSN 1875-0666

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First integrals with polynomials not higher than second order of the mathematical model of the intrinsic transmission dynamics of tuberculosis

Neagu Natalia¹, Popa Mihail², Orlov Victor^{2,3}

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The upper and lower bounds for number of conditions for center of the differential system $s(1; 2; :::; q)$

Popa Mihail¹, Pricop Victor^{1,2}

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² "Ion Creangă" State Pedagogical University from Chisinau

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Applications of algebraic methods in solving the center-focus problem

Popa Mihail, Pricop Victor

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Generators of the algebras of invariants for differential system with homogeneous nonlinearities of odd degree

Gherștega Natalia, Popa Mihail, Pricop Victor

Institute of Mathematics and Computer Science ASM

Buletinul Academiei de Științe a Republicii Moldova. Matematica

Nr. 2(69) / 2012 / ISSN 1024-7696 / ISSNe 2587-4322

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About characteristics of graded algebras $S_{1,4}$ and $SI_{1,4}$

Gherștega Natalia, Popa Mihail, Pricop Victor

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Classification of $GL(2, \mathbb{R})$ -orbit's dimensions for the differential equations' system with homogeneities of the 4th order

Naidenova Elena, Popa Mihail, Orlov Victor

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Nr. 1(53) / 2007 / ISSN 1024-7696 / ISSNe 2587-4322

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Lie algebras of the operators and three-dimensional polynomial differential systems

Gherștega Natalia¹, Popa Mihail²

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Methods of lie algebras and orbits in the study of differential systems concerned with the problems of energy safety of the Republic of Moldova

Popa Mihail¹, Bycova Elena V.², Staruș Elena¹, Gherștega Natalia³

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Energetica Moldovei. Aspecte regionale de dezvoltare

Nr. VIII / 2007 / ISSN 1857-0631

Disponibil online 31 July, 2018. Descarcări-3. Vizualizări-838

A Lie algebra of a differential generalized Fitz Hugh-Nagumo system

Popa Mihail¹, Georgescu Adelina², Rocșoreanu Carmen³

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