Popa Mihail

2023 - 5

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

Popa Mihail[1], Georgescu Adelina[2], Rocsoreanu Carmen[3]

[1] Institute of Mathematics and Computer Science ASM,

[2] University of Pitesti,
[3] University of Craiova

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

Gherştega Natalia[1], Popa Mihail[2]

[1] Tiraspol State University,
[2] Institute of Mathematics and Computer Science ASM

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 Mihail[1], Bycova Elena V.[2], Staruş Elena[1], Gherştega Natalia[3]

[1] Institute of Mathematics and Computer Science ASM,

[2] Institute of Power Engineering of ASM,
[3] Tiraspol State University

Lie algebras of operators and invariant GL(2,R)-integrals for Darboux type differential systems

Diaconescu Oxana, Popa Mihail

Institute of Mathematics and Computer Science ASM

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

Naidenova Elena, Popa Mihail, Orlov Victor

Institute of Mathematics and Computer Science ASM

2022 - 3

About characteristics of graded algebras S1,4 and SI1,4

Gherştega Natalia, Popa Mihail, Pricop Victor
Institute of Mathematics and Computer Science ASM

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

Gherştega Natalia, Popa Mihail, Pricop Victor
Institute of Mathematics and Computer Science ASM

Applications of algebraic methods in solving the center-focus problem

Popa Mihail, Pricop Victor
Institute of Mathematics and Computer Science ASM

2021 - 4

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

Neagu Natalia[1], Popa Mihail[2], Orlov Victor[23]

[1] "Ion Creangă" State Pedagogical University from Chisinau,
[2] Institute of Mathematics and Computer Science ASM,
[3] Technical University of Moldova

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

Popa Mihail[1], Pricop Victor[12]

[1] Institute of Mathematics and Computer Science ASM,
[2] "Ion Creangă" State Pedagogical University from Chisinau

Algebraic methods to the center-focus problem

Popa Mihail[1], Pricop Victor[2]

[1] Institute of Mathematics and Computer Science ASM,
[2] "Ion Creangă" State Pedagogical University from Chisinau

Învățămîntul superior din Republica Moldova la 85 de ani Probleme actuale ale ștințelor exacte și ale naturii

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

Răzlog (Belei) Ina[1], Şikimaka Olga[1], Grabco Daria[1], Sava Bogdan Alexandru[2], Boroica Lucica[2], Elişa Mihail[3], Pyrtsac Constantin[1], Prisăcaru Andrian[1], Popa Mihail[1]

[1] Institute of Applied Physics, Academy of Sciences of Moldova,

[2] National Institute for Laser, Plasma and Radiation Physics (INFLPR),
[3] National Institute for Optoelectronics INOE2000, Magurele

Materials Science and Condensed Matter Physics

2020 - 2

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

Neagu Natalia[1,2], Orlov Victor[3], Popa Mihail[4]

[1] Tiraspol State University,

[2] "Ion Creangă" State Pedagogical University from Chisinau,

[3] Technical University of Moldova,
[4] Institute of Mathematics and Computer Science ASM

Conference of Mathematical Society of the Republic of Moldova

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

Neagu Natalia[1], Orlov Victor[2,3], Popa Mihail[3]

[1] "Ion Creangă" State Pedagogical University from Chisinau,

[2] Technical University of Moldova,
[3] Institute of Mathematics and Computer Science ASM

Buletinul Academiei de Ştiinţe a Republicii Moldova. Matematica

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2019 - 4

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

Orlov Victor[12], Popa Mihail[2]

[1] Technical University of Moldova,
[2] Institute of Mathematics and Computer Science ASM

Conference of Mathematical Society of the Republic of Moldova

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

Neagu Natalia[12], Orlov Victor[34], Popa Mihail[3]

[1] Tiraspol State University,

[2] "Ion Creangă" State Pedagogical University from Chisinau,

[3] Vladimir Andrunachievici Institute of Mathematics and Computer Science,

[4] Technical University of Moldova

Conference on Applied and Industrial Mathematics CAIM 2018

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Popa Mihail, Pricop Victor

[1] Institutul de Matematică şi Informatică al AŞM,

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Popa Mihail, Pricop Victor

[1] Institutul de Matematică şi Informatică al AŞM,

2018 - 2

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

Neagu Natalia[12], Orlov Victor[34], Popa Mihail[41]

[1] Tiraspol State University,

[2] "Ion Creangă" State Pedagogical University from Chisinau,

[3] Technical University of Moldova,

[4] Vladimir Andrunachievici Institute of Mathematics and Computer Science

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

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

Neagu Natalia[1], Orlov Victor[12], Popa Mihail[2]

[1] Tiraspol State University,
[2] Vladimir Andrunachievici Institute of Mathematics and Computer Science

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2017 - 3

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

Neagu Natalia[1], Popa Mihail[23]

[1] "Ion Creangă" State Pedagogical University from Chisinau,

[2] Vladimir Andrunachievici Institute of Mathematics and Computer Science,
[3] Tiraspol State University

On the upper bound of the number of functionally independent focal quantities of the Lyapunov differential system

Popa Mihail, Pricop Victor

Vladimir Andrunachievici Institute of Mathematics and Computer Science

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About an algebraic vision on the center and focus problem

Popa Mihail[1], Pricop Victor[2]

[1] Vladimir Andrunachievici Institute of Mathematics and Computer Science,
[2] "Ion Creangă" State Pedagogical University from Chisinau

2016 - 1

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

Popa Mihail[1], Pricop Victor[2]

[1] Vladimir Andrunachievici Institute of Mathematics and Computer Science,
[2] "Ion Creangă" State Pedagogical University from Chisinau

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2015 - 1

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

Popa Mihail[1], Pricop Victor[2]

[1] Vladimir Andrunachievici Institute of Mathematics and Computer Science,
[2] "Ion Creangă" State Pedagogical University from Chisinau

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2014 - 2

Lyapunov's stability of the unperturbed motion governed by the s3(1,3) differential system of Darboux type

Neagu Natalia[1], Popa Mihail[2,3]

[1] "Ion Creangă" State Pedagogical University from Chisinau,
[2] Tiraspol State University,
[3] Vladimir Andrunachievici Institute of Mathematics and Computer Science

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

Neagu Natalia[1], Popa Mihail[2,3]

[1] "Ion Creangă" State Pedagogical University from Chisinau,
[2] Tiraspol State University,
[3] Vladimir Andrunachievici Institute of Mathematics and Computer Science

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2013 - 1

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

Neagu Natalia[1], Popa Mihail[2,3]

[1] "Ion Creangă" State Pedagogical University from Chisinau,
[2] Tiraspol State University,
[3] Vladimir Andrunachievici Institute of Mathematics and Computer Science

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2012 - 1

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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2010 - 1

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

Neagu Natalia[1], Popa Mihail[2], Orlov Victor[3]

[1] "Ion Creangă" State Pedagogical University from Chisinau,

[2] Vladimir Andrunachievici Institute of Mathematics and Computer Science,
[3] Technical University of Moldova

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2007 - 1

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

Neagu Natalia[1], Popa Mihail[2,3]

[1] "Ion Creangă" State Pedagogical University from Chisinau,

[2] Tiraspol State University,
[3] Vladimir Andrunachievici Institute of Mathematics and Computer Science

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2006 - 1

Differential equations and algebras

Popa Mihail[1,2]

[1] Vladimir Andrunachievici Institute of Mathematics and Computer Science,
[2] "Ion Creangă" State Pedagogical University from Chisinau

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2005 - 2

Differential Equations and Algebras

Popa Mihail[12]

[1] Vladimir Andrunachievici Institute of Mathematics and Computer Science,
[2] "Ion Creangă" State Pedagogical University from Chisinau

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

Neagu Natalia[1], Popa Mihail[2]

[1] "Ion Creangă" State Pedagogical University from Chisinau,
[2] Vladimir Andrunachievici Institute of Mathematics and Computer Science, MSU

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2003 - 1

Professor Alexandru Subă on his 70th birthday

Cozma Dumitru[1], Popa Mihail[2]

[1] "Ion Creangă" State Pedagogical University from Chisinau,
[2] Vladimir Andrunachievici Institute of Mathematics and Computer Science, MSU

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

Neagu Natalia[1], Popa Mihail[12]

[1] "Ion Creangă" State Pedagogical University from Chisinau,
[2] Vladimir Andrunachievici Institute of Mathematics and Computer Science, MSU

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