

CODEMA 2022

**BOOK OF
ABSTRACTS**

Ohrid, September 25-28, 2022

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Contents

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 1. Stevan Pilipović: SOME CONTRIBUTIONS TO SPECTRAL ANALYSIS OF ψ -DO's | 5 |
| 2. Sonja Mančevska, Marija Orovčanec: N-TUPLE WEAK ORBITS TENDING TO INFINITY FOR HILBERT SPACE OPERATORS | 6 |
| 3. Jelena Vujaković, Slobodanka Mitrović, Stojan Radenović: SOME NEW RESULTS ON F-CONTRACTION IN G-METRIC SPACES | 7 |
| 4. Slavica Ivelić Bradanović: IMPROVEMENT OF MAJORIZATION INEQUALITIES USING CONCEPT OF STRONGLY CONVEXITY WITH APPLICATION | 9 |
| 5. Marija Miteva, Limonka Koceva Lazarova: SOME OTHER PRODUCTS OF DISTRIBUTIONS IN COLOMBEAU ALGEBRA | 10 |
| 6. Biljana Zlatanovska, Boro Piperevski, Mirjana Kocaleva Vitanova, Marija Miteva: A PARTICULAR SOLUTION TO THE SPECIAL CASE OF A FOURTH-ORDER SHORTENED LORENZ SYSTEM | 11 |
| 7. Samoil Malcheski, Risto Malcheski: GENERALIZATION OF A REICH-TYPE CONTRACTIVE MAPPING IN A COMPLETE METRIC SPACE | 13 |
| 8. Samoil Malcheski: COMMON FIXED POINTS OF TWO T_f REICH-TYPE CONTRACTIONS IN COMPLETE METRIC SPACE | 14 |
| 9. Marina Tošić, Jelena Vujaković: INVERTIBILITY OF A LINEAR COMBINATION OF K-POTENT MATRICES | 16 |
| 10. Marija Najdanović, Ljubica Velimirović, Svetozar Rančić, Miroslav Maksimović: DEFORMED SPHERICAL CURVES | 17 |
| 11. Zoran Misajleski, Aneta Velkoska, Emin Durmishi: CHAIN CONNECTED SET IN A SPACE | 18 |
| 12. Jamila Kalantarova: BLOW UP OF SOLUTIONS FOR COUPLED SYSTEMS OF NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS | 19 |
| 13. Daniel Velinov: ON THE EXISTENCE AND UNIQUENESS OF (ω, ρ) -PERIODIC SOLUTIONS OF IMPULSIVE DIFFERENTIAL EQUATIONS ON BANACH SPACES | 20 |
| 14. Tomi Dimovski, Pavel Dimovski: CANTOR'S INTERSECTION THEOREM IN $(3,1,\nabla)$ -G-METRIZABLE SPACES | 21 |
| 15. Kastriot Zoto, Ilir Vardhami: A REVIEW FOR GENERALIZED SUZUKI - CONTRACTIONS BY SIMULATION FUNCTIONS IN COMPLETE B-METRIC- LIKE SPACES | 23 |
| 16. Pavel Dimovski: WIENER AMALGAM SPACES OF QUASIANALYTIC ULTRADISTRIBUTIONS | 24 |
| 17. Bujar Xh. Fejzullahu: A PROBABILISTIC PROOF OF AN ASYMPTOTIC FORMULA FOR THE LAGUERRE POLYNOMIALS | 25 |

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 18. Aleksa Malcheski: THEOREM OF HAHN-BANACH FOR CYCLIC 2-SUBSPACES, WITH $n \geq 5$ GENERATING ELEMENTS | 26 |
| 19. Kostadin Trenchevski: | 27 |
| 20. Natasha Stojkovikj, Limonka Koceva Lazarova, Aleksandra Stojanova Ilievska: APPLICATION OF MARKOV CHAINS IN THE BIOLOGY | 28 |
| 21. Nataša Kontrec, Stefan Panić, Biljana Panić, Mejrima Ljajko: STATISTICAL ANALYSIS OF REPAIR RATE FOR MAINTENANCE DECISION-MAKING | 30 |
| 22. Sava Grozdev, Veselin Nenkov, Tatiana Madjarova: SEVERAL LOCI GENERATED BY A MOVING TRIANGLE BETWEEN TWO FIXED CIRCLES | 33 |
| 23. V. Nenkov, St. Stefanov, H. Haimov, A. Velchev: COSINE AND COTANGENT THEOREMS FOR A QUADRILATERAL, TWO NEW FORMULAS FOR ITS AREA AND THEIR APPLICATIONS | 35 |
| 24. Marija Miteva, Limonka Koceva Lazarova, Biljana Zlatanovska, Natasa Stojkovik: STEM APPROACH IN TEACHING MATHEMATICS | 37 |
| 25. Elena Karamazova Gelova, Mirjana Kocaleva Vitanova: SOLVING TASKS FROM LINEAR PROGRAMMING USING GEOGEBRA | 38 |
| 26. Biljana Zlatanovska, Marija Miteva, Mirjana Kocaleva Vitanova: ALGEBRAIC RATIONAL EXPRESSIONS IN PRIMARY AND SECONDARY EDUCATION - PROBLEMS AND DISADVANTAGES | 40 |
| 27. Методи Главче, Ристо Малчески: РАЗВОЈ НА ЕЛАСТИЧНОСТА НА МИСЛЕЊЕТО КАЈ УЧЕНИЦИТЕ ВО ПОЧЕТНОТО ОБРАЗОВАНИЕ | 41 |
| 28. Katerina Anevskа, Valentina Gogovska, Risto Malcheski: WORKING WITH MATHEMATICALLY GIFTED STUDENTS AGED 18 TO 19 | 42 |
| 29. Dragana Nedić, Gordana Jotanović, Tijana Paunović, Aleksandar Kršić: ANALYSIS OF STUDENT ACHIEVEMENTS IN TEACHING COMPLEX NUMBERS USING GEOGEBRA SOFTWARE | 43 |
| 30. Marina Manić, Eugen Ljajko, Marina Tošić Stojanović: GAMES IN MATHEMATICS INSTRUCTION | 45 |
| 31. Ана Димовска, Томи Димовски: ПИСА ТЕСТИРАЊЕТО ВО СРЕДНИТЕ СТРУЧНИ УЧИЛИШТА | 46 |

APPLICATION OF MARKOV CHAINS IN THE BIOLOGY

Natasha Stojkovikj, Limonka Koceva Lazarova, Aleksandra Stojanova Ilievska

Abstract. Markov chain is a random process with Markov characteristics, which exists in the discrete index set and state space in probability theory and mathematical statistics. Markov chains are powerful tools for stochastic modelling that can be useful in any science discipline. In this paper, we give an overview of some basic applications of the Markov chains in the biology. We will describe the application in crossbreeding of the animals in close relation and the carcinogenesis.

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