

CONTENTS

MATHEMATICS

Numerical methods:

1. Vassil Grozdanov, Atidzhe Hodzhova, Elmi Shabani. Quasi-Monte Carlo Integration in the Mixed Korobov–Sobolev Type Space $H_{Mix,s,\alpha,\gamma,w}$ p.547

Analyse mathématique:

2. Jozef Bobok. Corrigendum to “On spaceability of Besicovitch functions”, [Comptes rendus de l'Académie Bulgare des Sciences 68(8) (2015), 957–966, DOI: 10.7546/CRABS.2019.06.07] p.557

BIOLOGY

Botany:

3. Veselin V. Shivarov, Snezhina Popova. First Record of the Genus *Exarmidium* (Odontotremataceae, Ascomycota) from Bulgaria p.561

Biophysics:

4. Rusina Hazarosova, Vesela Yordanova, Dayana Benkova, Ralitsa Angelova, Albena Momchilova, George Ivanov, Aneliya Kostadinova, Roumen Pankov, Galya Staneva. Perfluorooctanoic Acid vs. Perfluorooctanesulphonic Acid: Differential Effects on Membrane Interfacial Dynamics p.569

Neurobiology:

5. Deniz Önal, Yunus Emre Özer, Burak Şafak, Hasan Çalıřkan. Temporal and Spatial Expression Dynamics of Persephin in the Developing Rat Brain p.577

Hydrobiology:

6. Nikola N. Djukić, Tatjana R. Jakšić, Vera D. Vukanić, Snežana R. Štrbac, Slavica Ćirić, Tamara Petronijević, Željko Bulatović. Benthic Diatoms as Bioindicators: An Ecological Status Evaluation of the Gračanka River (Kosovo and Metohija) p.586

PHYSICAL GEOGRAPHY

Climatology:

7. Surkhay Hasan Safarov. Assessment of Monthly Maximum and Minimum Air Temperature Changes Tendency in the Nakhchivan Autonomous Republic Based on Normal Values p.595

GEOFYSICS

Oceanology:

8. Dimitar Trukhchev, Valentin Georgiev, Anton Krastev, Radka Mavrodieva. Features of the Intra-annual Variability of the Hydrochemical and Hydrobiological State of Varna Lakes in the Period 2022–2023 p.603

SPACE SCIENCES

Space mission analysis:

9. *Atanas M. Atanassov*. Efficiency Enhancement of Situational Analysis for Space Mission Design Using Reordered Heuristics p.615

ENGINEERING SCIENCES

Mechanics:

10. *Pei Huang, Sun Chengjiao, Andrii Chepizhnyi, Yuliya Sirenko, Nataliia Artiukh, Nataliia Pindus, Andrii Topalov*. Electromagnetic Transducer for Measuring the Thickness of the Heat-Resistant Ferromagnetic Film of Turbine Blades ... p.624

MEDICINE

Radiology:

11. *Xuyao Zhu, Ruifeng Zhao, Kailei Liu, Qiang Guo, Chuanbing Xu, Xiaochen Yi*. The Clinical Utility of DWI-ADC Value in Predicting the Efficacy of TACE for Hepatocellular Carcinoma p.633

12. *Turay Cesur, Yasin Celal Gunes, Eren Camur, Gulay Cesur Cinar, Goksel Tuzcu, Avni Merter Keceli*. Diagnostic Accuracy of Large Language Models for Fictional Pediatric Neuroradiology Cases: A Comparative Study with Radiologists p.640

Clinical medicine:

13. *Xu Zhenzhen, Zhu Xiumei, Lin Yuxian, Wang Shengnan, Zhen Xianxian, Lin Linxia*. Productivity Innovation in the Context of Digital Transformation – A Study of ChatGPT in Outpatient Satisfaction Follow-up p.650

14. *Hong Xu, Junze Chen, Jinyuan Chen, Xueyang Li*. Research on the Combined Treatment of Deep Pigmented Diseases Using Q-switched Laser and Intense Pulsed Light, Enhanced by the Photoacoustic Effect p.661

AGRICULTURAL SCIENCES

Plant breeding:

15. *Natalia Georgieva, Valentin Kosev*. Application of the Ecologo-genetic Model in the Estimation of Breeding Accessions of *Cicer arietinum* L. p.669

Animal husbandry:

16. *Hacer Tüfekci, İbrahim Can Temur, Hilal Tozlu Çelik, Hilal Özçelik*. Wool Yield and Quality Characteristics of Akkaraman Breed Sheep p.677

Pest control:

17. *Zheko Radev, Hristo Bozukov*. Possibility of *Myzus persicae* Sulzer Control in Tobacco Plantations p.687

18. *Plamen Ivanov, Penka Filyova*. Impact of *Cydia pomonella* Infestation on the Quality Parameters of ‘Jonagold’ Apples p.693