

**Уебинар „Научни резултати“  
– 26 ноември 2020 г.**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## **New Uniform Subregular Parallelisms of $PG(3,4)$ Invariant Under an Automorphism of Order 2**

*Thursday, 26 November 2020 14:00 (10 minutes)*

**Presenters:** BETTEN, A.; TOPALOVA, S.; ZHELEZOVA, S.

Contribution ID: 2

Type: **not specified**

## **Two-stage search-based approach for determination and sorting of mountain hiking routes using directed weighted multigraph**

*Thursday, 26 November 2020 14:10 (10 minutes)*

**Presenter:** BORISSOVA, I. GARVANOV, M. GARVANOVA, Z. Dimitrova, V. Dimitrov, D.

Contribution ID: 3

Type: **not specified**

## **New local search procedure for workforce planning problem**

*Thursday, 26 November 2020 14:20 (10 minutes)*

**Presenter:** G. LUQUE, S. Fidanova,

Contribution ID: 4

Type: **not specified**

## **A New Class of "Growth Functions" with Polynomial Variable Transfer Generated by Real Reaction Networks**

*Thursday, 26 November 2020 14:30 (10 minutes)*

**Presenter:** KYURKCHIEV, N.

Contribution ID: 5

Type: **not specified**

## **A. Rahnev, Comments on the Half Logistic Inverse Rayleigh (HLIR) CDF with “Polynomial Variable Transfer”. Some Applications**

*Thursday, 26 November 2020 14:40 (10 minutes)*

**Presenter:** A. ILIEV, N. Kyurkchiev,

Contribution ID: 6

Type: **not specified**

## **Performance Analysis of a Scalable Algorithm for 3D Linear Transforms on Supercomputer with Intel Processors/coprocessors**

*Thursday, 26 November 2020 14:50 (10 minutes)*

**Presenter:** LIRKOV, I.

Contribution ID: 7

Type: **not specified**

# **Numerical Solution of Integro- Differential Equations Modelling the Dynamic Behavior of a Nano-Cracked Viscoelastic Half-Plane**

*Thursday, 26 November 2020 15:00 (10 minutes)*

**Presenter:** DINEVA, G. MANOLIS, T. Rangelov, P.

Contribution ID: 8

Type: **not specified**

## **Geometrically Non-linear Vibration of a Cantilever Interacting with Rarefied Gas Flow**

*Thursday, 26 November 2020 15:10 (10 minutes)*

**Presenter:** E. MANOACH, K. Shterev,

Contribution ID: 9

Type: **not specified**

# **Molecular Dynamics Simulations of Acetylcholinesterase - Beta-amyloid Peptide Complex**

*Thursday, 26 November 2020 15:20 (10 minutes)*

**Presenter:** DIMITROV, S. IVANOV, M. Atanasova, I.

Contribution ID: **10**

Type: **not specified**

## **Design of Multi-epitope Vaccine against SARS-CoV-2**

*Thursday, 26 November 2020 15:30 (10 minutes)*

**Presenter:** A. TCHORBANOV, I. Doytchinova,

Contribution ID: 11

Type: **not specified**

## **Trend Analysis of CMIP5 Ensemble of Climate Indices over Southeast Europe with Focus on Agricultural Impacts**

*Thursday, 26 November 2020 15:40 (10 minutes)*

**Presenter:** G. GADZHEV, K. GANEV, H. Chervenkov, V. Ivanov,

Contribution ID: 12

Type: **not specified**

## **Degree-day Climatology over Central and Southeast Europe for the period 1961–2018 - evaluation in High Resolution**

*Thursday, 26 November 2020 15:50 (10 minutes)*

**Presenter:** GADZHEV, K. GANEV, D. MELAS, H. Chervenkov, V. Ivanov, G.

Contribution ID: 13

Type: **not specified**

## **High Performance Machine Learning Models of Large Scale Air Pollution Data in Bulgarian City**

*Thursday, 26 November 2020 16:00 (10 minutes)*

**Presenter:** IVANOV, Y. LIVIERIS, S. Gocheva-Ilieva, A.