

# **HPC 2024 Conference**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## **National Center for High-performance and Distributed Computing (NCHDC)**

*Friday, 15 November 2024 10:10 (20 minutes)*

**Presenter:** KARAIVANOVA, A.

Contribution ID: 2

Type: **not specified**

## **National Geoinformation Center (NGIC):**

*Friday, 15 November 2024 10:30 (15 minutes)*

**Presenter:** TRIFONOVA, P.

Contribution ID: 3

Type: **not specified**

## **The National Center of Competence**

*Friday, 15 November 2024 14:00 (15 minutes)*

**Presenter:** KARAIVANOVA, A.

Contribution ID: 4

Type: **not specified**

## **NCC Bulgaria service portfolio**

*Friday, 15 November 2024 16:00 (15 minutes)*

**Presenter:** ATANASSOV, E.

Contribution ID: 5

Type: **not specified**

## **HPDA services for industry**

*Friday, 15 November 2024 16:15 (15 minutes)*

**Presenter:** KISIMOV, V.

Contribution ID: 6

Type: **not specified**

## **Success stories for HPC/HPDA/AI usage by SMEs**

**Presenter:** PROYKOVA, A.

Contribution ID: 7

Type: **not specified**

## Case study 1

*Friday, 15 November 2024 16:30 (10 minutes)*

**Presenter:** ATANASSOV, E.



Contribution ID: 8

Type: **not specified**

## **Success stories for HPC/HPDA/AI usage by SMEs**

**Presenter:** STEFANOVA, K.

Contribution ID: 9

Type: **not specified**

## **Success stories 2- SU**

Contribution ID: **10**

Type: **not specified**

# Success stories 1 - IICT

Contribution ID: **11**

Type: **not specified**

## **Success stories 2- IICT**

Contribution ID: 12

Type: **not specified**

## **National Interdisciplinary Research E-Infrastructure for Bulgarian Language and Cultural Heritage Resources and Technologies (CLaDA-BG)**

*Friday, 15 November 2024 10:45 (15 minutes)*

**Presenter:** SIMOV, K.

Contribution ID: 13

Type: **not specified**

## **Distributed System of Scientific Collections (DiSSCo)**

*Friday, 15 November 2024 11:00 (15 minutes)*

**Presenter:** GEORGIEV, B.

Contribution ID: 14

Type: **not specified**

## **Constructing PG(3,4) parallelisms using the supercomputer Avitohol**

*Friday, 15 November 2024 11:15 (10 minutes)*

**Presenter:** S. TOPALOVA, S. Bancheva,

Contribution ID: 15

Type: **not specified**

## **Features of the formation and distribution of the fine particulate matter in different scales**

*Friday, 15 November 2024 11:25 (10 minutes)*

**Presenter:** IVANOV, V.



Contribution ID: 16

Type: **not specified**

## **Evaluation of Emission Factors for Particulate Matter and NO<sub>2</sub> from Road Transport in Sofia, Bulgaria**

*Friday, 15 November 2024 11:35 (10 minutes)*

**Presenter:** DIMITROVA, R.

Contribution ID: 17

Type: **not specified**

## **HPC for Hyperparameter Optimization on a Neuromorphic Brain Signal Decoder**

*Friday, 15 November 2024 11:45 (10 minutes)*

**Presenter:** P. KOPRINKOVA-HRISTOVA, G. Rusev,

Contribution ID: **18**

Type: **not specified**

## **High-performance computing for distributed and federated machine and deep learning**

*Friday, 15 November 2024 11:55 (10 minutes)*

**Presenter:** LAZAROVA, M.

Contribution ID: 19

Type: **not specified**

## **In silico analysis of immunogenic proteins of viral origin**

*Friday, 15 November 2024 12:05 (10 minutes)*

**Presenter:** DONEVA, N.

Contribution ID: 20

Type: **not specified**

## **The European Digital Innovation Hub Zagore**

*Friday, 15 November 2024 15:00 (15 minutes)*

**Presenter:** ANGELOVA, G.

Contribution ID: 21

Type: **not specified**

## **The European Digital Innovation Hub Trakia**

*Friday, 15 November 2024 14:15 (15 minutes)*

**Presenter:** MINCHEV, Z.

Contribution ID: 22

Type: **not specified**

## **The Riskmap.bg Platform - collaborative work between Bulgarian researchers and local stakeholders**

*Friday, 15 November 2024 14:30 (15 minutes)*

**Presenter:** DOBRINKOVA, N.

Contribution ID: 23

Type: **not specified**

## **Collaborative work -EEA, NMNHS, ICT-BAS**

*Friday, 15 November 2024 14:45 (15 minutes)*

**Presenter:** SERBEZOV, R.



Contribution ID: 24

Type: **not specified**

## Case study 2

*Friday, 15 November 2024 16:40 (10 minutes)*

**Presenter:** PROYKOVA, A.

Contribution ID: 25

Type: **not specified**

## Case study 3

*Friday, 15 November 2024 16:50 (10 minutes)*

**Presenter:** STEFANOVA, K.

Contribution ID: 26

Type: **not specified**

## **DFT calculations of molecular structure and spectral properties of tautomeric molecules and/or their metal complexes**

*Friday, 15 November 2024 12:15 (15 minutes)*

**Presenter:** AHMEDOVA, D.

Contribution ID: 27

Type: **not specified**

## Round table discussion

*Friday, 15 November 2024 17:00 (30 minutes)*

**Presenters:** IBM ("ACCELERATING STARTUPS WITH AI (WATSONX) AND CLOUD TECHNOLOGY"); Z. Abdulrahim, G. Kaludov, R. Nikolov; VEM TECHNOLOGY; D. Boykov; PAYHAWK; D. Dimitrov; RISK ELECTRONICS, G. Kisyov,