

*The*

# **EOSC Regional Event**

*by*  **NIXOS**  
Europe



*Embedding*

**EOSC**

*in*

*Southeast Europe*



**SEPTEMBER 28-29, 2022**

**BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS**

DAY 1

9:00 Registration

10:00 *Open Science Cloud in the Southeast European region and beyond*

Chair:  
Prof. Anastas Mishev

**Open Science challenges and success in Hungary**

– Dr. István Szabó, Vice President of the National Research, Development and Innovation Office

**2 decades of South-East European regional cooperation**

– Dr. Ognjen Prnjat, NI4OS-Europe coordinator; Director of European Infrastructures and Projects, National Infrastructures for Research and Technology (GRNET)

**EOSC Association: technical vision**

– Rene Buch, Chief Technical Officer, EOSC Association

**EOSC as part of the EC strategy for Open Science**

– Dr. Michel Schouppe, Senior expert and team leader on EOSC, Open Science Unit, DG R&I

11:30 Coffee Break

11:50 *Pan-European Cloud: global coverage*

Chair:  
Dr. Michel Schouppe

**EOSC-Nordic and its regional impact**

– Dr. Lene Krøl Andersen, International Liaison, Computerome

**EOSC-Pillar**

– Jos van Wezel, International Projects Coordinator, KIT, Germany

**EOSC-Synergy**

– Viet Tran, PhD., Senior researcher, Institute of Informatics, Slovak Academy of Sciences

**Panel, including NI4OS-Europe**

– Eleni Toli, Project Director, NI4OS-Europe; Researcher, ATHENA

13:20 Lunch

14:20 *Capacity provisioning for EOSC*

Chair:  
Eleni Toli

**Data services and DICE project**

– Dr. Debora Testi, DICE project coordinator, EUDAT user engagement leader, CINECA

**Computing services and EGI-ACE project**

– Dr. Gergely Sipos, Head of Services, Solutions and Support, EGI Foundation

**Open publishing services and OpenAIRE-Nexus project**

– Natalia Manola, CEO, OpenAIRE

**C-SCALE: Enabling Copernicus Big Data Analytics through EOSC**

– Dr. Christian Briese, Managing Director, EODC

15:50 Coffee Break

16:10 *EOSC-Future and the ecosystem*

Chair:  
Prof. Aneta Karaivanova

**EOSC-Future platform: focus on Western Balkans**

– Dr. Anastas Mishev, Professor, Ss. Cyril and Methodius University in Skopje

**EOSC Working Groups**

– Dr. Ilias Papastamatiou, Senior Project Manager, GRNET

**Integrated training platforms and skills**

– Dr. Sonja Filiposka, Professor, Ss. Cyril and Methodius University in Skopje

**EOSC Promoters in NI4OS-Europe**

– Vasiliki Koukounidou, University Officer, University of Cyprus Library

Room 1

DAY 1

9:00 Registration

Room 2

11:30 Coffee Break

*Life Sciences*

11:50 **Life Sciences in NI4OS-Europe and the region**

– Dr. Zoe Cournia, Senior Researcher, Biomedical Research Foundation, Academy of Athens

12:05 **HPC for germline variant calling pipeline for human whole genome data**

– Dr. Mirjana Novkovic, Assistant Research Professor, Institute of Molecular Genetics and Genetic Engineering, University of Belgrade

12:20 **Targeting protein-membrane interfaces using NI4OS-Europe resources**

– Dr. Alexios Chatzigoulas, Postdoctoral Researcher, Biomedical Research Foundation of the Academy of Athens

12:35 **Cloud platform for discovery of targeted drug delivery systems**

– Elena Kusevska, FCSE, Ss. Cyril and Methodious University in Skopje

12:50 **EEGHUB.GE: Brain electrical activity**

– Dr. Irma Khachidze, Scientist, I. Beritashvili Center of Experimental Biomedicine, Tbilisi, Georgia

Chair:  
Dr. Zoe Cournia

13:20 Lunch

*Climate & Meteorology*

14:20 **Climate Science in NI4OS-Europe and the region**

– Dr. Theo Christoudias, Associate Professor, The Cyprus Institute

14:35 **Reduced precision chemical kinetics in atmospheric models**

– Kyriakos Sofokleous, PhD Student, The Cyprus Institute

14:50 **Airquality prediction service**

– Dr. Boro Jakimovski, Professor, Dean of FCSE, Ss. Cyril and Methodious University in Skopje

**Computational climate science and systems in Armenia**

15:05 – Dr. Hrachya Asatsryan, Head of Scientific Computing Center, National Academy of Sciences of Armenia, Yerevan

**Remote sensing scene classification**

15:20 – Dr. Vladimir Risojevic, Associate Professor, Faculty of Electrical Engineering, University of Banja Luka

Chair:  
Dr. Theo Christoudias

15:50 Coffee Break

*Digital Cultural Heritage*

16:10 **DCH in NI4OS-Europe and the region**

– Dr. George Artopoulos, Associate Professor, The Cyprus Institute

16:55 **Platform for Digitization of Old and Heterogeneous Documents**

– Dr. Tudor Bumbu, Vladimir Andrunachievici Institute of Mathematics and Computer Science

16:25 **2D color matching of fresco fragments with HPC**

– Dr. Sofia Ivanovska, Associate Professor, Institute of Information and Communication Technologies, Bulgarian Academy of Sciences

16:40 **CHERE - Cultural Heritage Repository**

– Dr. Mihajlo Savic, Professor, Faculty of Electrical Engineering, University of Banja Luka

17:10 **A user-driven content management system for DCH: C4DCH**

– Maria Tzima, Software Developer for Data Management, The Cyprus Institute

Chair:  
Dr. George Artopoulos

DAY 2

Room 1

8:30 Registration

9:00 *Policy aspects of EOSC*

**Status of National Open Science Cloud Initiatives in SEE**

– *Eleni Toli, Project Director, NI4OS-Europe; Researcher, ATHENA*

**EOSC MAR and SRIA**

– *René Buch, Chief Technical Officer, EOSC Association*

**Mandated organisation case study: KIFÜ, Hungary**

– *János Mohácsi, International R&D Officer, Governmental Information-Technology Development Agency (KIFÜ)*

**NOSCI case study: Bulgaria**

– *Dr. Aneta Karaivanova, Professor, Scientific Secretary, ICT-BAS*

**Joint Q&A**

Chair:  
Dr. Srna Sudar

10:30 Coffee Break

10:50 *Generic services in Southeast European region*

**NI4OS-Europe catalogue and generic services**

– *Dr. Dusan Vudragovic, Assistant Research Professor, Institute of Physics Belgrade*

**Hungarian HPC offering and future plans**

– *Dr. Tamás Máray, Head of HPC Competence Center, Governmental Information-Technology Development Agency (KIFÜ)*

**DAEDALUS: upcoming HPC regional collaboration**

– *Dr. Evangelia Athanasaki, Deputy Director, European Infrastructures and Projects, National Infrastructures for Research and Technology (GRNET)*

Chair:  
Prof. Boro Jakimovski

12:20 Lunch

13:20 *NI4OS-Europe tools for service providers*

**Pre-production environment and service onboarding**

– *Prof. Dr. Anastas Mishev, Professor, Ss. Cyril and Methodius University in Skopje*

**NI4OS-Europe core services**

– *Themis Zamani, Head of Implementation Unit, European Infrastructures and Projects Directorate, GRNET*

**Repository onboarding**

– *Milica Ševkušić, Librarian, Serbian Academy of Sciences and Arts*

Chair:  
Dr. Dusan Vudragovic

14:50 Coffee Break

15:10 *Closing session*

**Open Science Cloud: Users' vision**

– *Dr. Ljupco Pejov, Professor, Ss. Cyril and Methodius University in Skopje*

– *Dr. Zoe Cournia, Senior Researcher, Biomedical Research Foundation, Academy of Athens*

Chair:  
Dr. Ognjen Prnjat

DAY 2

Room 2

8:30 Registration

*Computational Physics*

Chair:  
Dr. Bojana Koteska

- 9:00 **Computational physics in NI4OS-Europe and the region**  
– Dr. Bojana Koteska, Assistant Professor, Ss. Cyril and Methodius University in Skopje
- 9:15 **A more exact interpretation of IRMPD spectroscopic data analysis**  
– Blagoj Achevski, Research Assistant, Faculty of Pharmacy, Ss. Cyril and Methodius University in Skopje
- 9:45 **Engineering pharmaceutical crystals**  
– Dejan Kuneski, Researcher, Department of Research and Technological Development, ALKALOID AD SKOPJE
- 10:00 **Study of magnetic properties of nanoclusters**  
– Dr. Yurii Chumakov, Leading Scientific Researcher, Institute of Applied Physics of Moldova
- 10:15 **Transport in strongly interacting electron-phonon systems**  
– Dr. Veljko Jankovic, Assistant Research Professor, Institute of Physics Belgrade
- 10:30 **Properties of the square-lattice Hubbard model**  
– Dr. Sonja Predin, Assistant Research Professor, Institute of Physics Belgrade

10:45 Coffee Break

- 11:05 *Open Research Data Management tools*
- Tools for researchers and support to policies**  
– Dr. Branko Marović, Deputy director, RCUB, University of Belgrade
- License clearance tool**  
– Panagiota Koltsida, Research Associate, ATHENA
- EOSC RoP Legal and ethics compliance with RoLECT**  
– Eleni Toli, Project Director, NI4OS-Europe; Researcher, ATHENA

Chair:  
Milica Ševkušić

12:35 Lunch

*Other/Inter-disciplinary Services*

Chair:  
Dr. Andreas Athenodorou

- 13:35 **Audio-video-based vehicle detection and speed estimation**  
– Dr. Slobodan Djukanovic, Faculty of Electrical Engineering, University of Montenegro
- 13:50 **Sandpaper: exporting edge computing to EOSC**  
– Dr. Katja Gilly, Associate Professor, Miguel Hernández University
- 14:05 **Open access web application for metric skeletal sex estimation**  
– Dr. Chrysovalantis Constantinou, Computational Scientist, The Cyprus Institute
- 14:20 **Cloud service for automatic image mosaicking and georeferencing**  
– Dr. Milutin Radonjić, Associate Professor, Faculty of Electrical Engineering, University of Montenegro
- 14:35 **Phase transition recognition using deep learning autoencoders**  
– Dr. Srijit Paul, Postdoctoral Researcher, University of Edinburgh

14:50 Coffee Break

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