



# IBERGRID 2024

## Monday, 28 October 2024

### **IBERGRID: Digital Twins for GEOphysical extremes - Auditório (10:30 - 12:30)**

-Conveners: Isabel Campos

time	[id] title	presenter
10:30	[21] A digital twin for geophysical extremes: interim results from the DT-GEO project	FOLCH, Arnau
11:00	[15] Reproducibility of parallel workflows for Digital Twins	LEZZI, Daniele Dr SIRVENT, Raul
11:30	[31] FAIR-EVA : Fair data in the DT_GEO project	PALOMO LLAVONA, Iván
11:45	[39] Containerization of applications and services in DT-GEO	GOMES, Jorge DAVID, Mário
12:00	[33] Metadata-powered characterization of DT-GEO Digital Twins	ORVIZ FERNÁNDEZ, Pablo
12:15	[42] Tsunami modelling within the framework of DT-GEO DTC-T1	GONZÁLEZ DEL PINO, Alejandro

### **IBERGRID: Conference Opening - Auditório (14:00 - 14:30)**

### **IBERGRID: Special Topics - Auditório (14:30 - 16:00)**

-Conveners: Jorge Gomes

time	[id] title	presenter
14:30	[14] Ibergrid - a status update	CAMPOS, Isabel
15:00	[47] Advanced Computing in Portugal	SANTOS, Francisco FERREIRA, João
15:25	[13] Driving EGI Forward: Spain and Portugal Powering the EGI Federation	MANZI, Andrea
15:40	[24] Kubernetes at INCD	VIANA, Miguel

### **IBERGRID: Contributions - Auditório (16:30 - 18:10)**

-Conveners: Mário David

time	[id] title	presenter
16:30	[45] An update from the European Open Science Cloud Spanish National Tripartite Event	BLANQUER ESPERT, Ignacio
16:50	[44] In situ processing of medical imaging data	BLANQUER ESPERT, Ignacio
17:10	[26] Galician Marine Sciences Program Data Lake	Ms GRELA LLERENA, Cecilia Mr PRIETO RÚA, Pablo Dr CACHEIRO LÓPEZ, Javier
17:30	[10] Batch Processing on Kubernetes using the OSCAR framework	RODRÍGUEZ, Vicente

17:50	[4] An architecture for the building and management of computing continuum systems using serverless blocks	SANCHEZ GALLEGOS, Dante Domizzi Dr GONZALEZ-COMPEAN, Jose Luis
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## Tuesday, 29 October 2024

### **IBERGRID: Special Topics - Auditório (09:00 - 10:30)**

-Conveners: Ignacio Blanquer Espert

time	[id] title	presenter
09:00	[35] EuroHPC opportunities for SMEs and large industries	Dr AXNER, Lilit
09:20	[25] From cluster managers to scientific software build & installation frameworks, one day working on HPCNow!	RODRÍGUEZ LÓPEZ, Manuel Aurelio
09:40	[38] SPECTRUM: Computing Strategy for Data-intensive Science Infrastructures in Europe in the High Energy Physics and Radio Astronomy Domains	SALAZAR FORN, Xavier
10:00	[43] Unleashing Potential: High-Performance Computing, Big Data and Quantum Computing for Innovation	Dr SALOMONI, Davide

### **IBERGRID: Contributions - Auditório (11:00 - 13:00)**

-Conveners: João Pina

time	[id] title	presenter
11:00	[18] Use of HPC resources for to find new drugs against biofilm formation	VIEIRA, Tatiana F.
11:20	[12] Use of HPC Computing for Accelerating Drug Discovery Targeting the SARS-CoV-2 S-RDB/ACE2 Interaction	MARTINS, Fábio G.
11:40	[29] Title: Enhancing AI development in the EOSC context: AI4EOSC and iImagine	ALIBABAEI, Khadijeh
12:00	[7] AI Model Inference Pipelines in AI4EOSC and iImagine with OSCAR and AI4Compose	MOLTÓ, Germán
12:20	[36] Applied Machine Learning, AI and Data: Responsible AI and Data Privacy Awareness	NGUYEN, Giang
12:40	[3] Dataverse storage performance and backups strategies.	BENTA, Zacarias

### **IBERGRID: Contributions - Auditório (14:00 - 15:40)**

-Conveners: Javier Cacheiro

time	[id] title	presenter
14:00	[6] The interTwin project: Building and managing scientific Digital Twins	MANZI, Andrea
14:20	[9] InterTwin's Digital Twin Engine Components OSCAR and DCNiOS	PARCERO, Estíbaliz
14:40	[22] The interTwin Digital Twin Engine Data Lake	VRBANEC, Dijana
15:00	[30] SQAaaS as the quality gate for Digital Twins	ORVIZ FERNÁNDEZ, Pablo
15:20	[2] EGI Software Provisioning Infrastructure	PINA, João

### **IBERGRID: Contributions - Auditório (16:10 - 17:50)**

-Conveners: Germán Moltó

time	[id] title	presenter
16:10	[11] Open Data for DESY, HIFIS, NFDI and EOSC	WETZEL, Tim

16:30	[16] DataLake Applications: Lattice QCD	Mr RAY, Gaurav
16:50	[46] Forecasting River Flow in the Tejo River Basin Utilizing Deep Learning Models	JESUS, Goncalo
17:10	[19] Optimizing Cloud Resource Allocation in Containerized Bioinformatics Workflows Using the Cloud Monitoring Kit (CMK)	NICA, Robert
17:30	[5] RIECS-Concept: Conceptualizing a Pan-European Research Infrastructure for Citizen Science	SERRANO SANZ, Fermín

# Wednesday, 30 October 2024

## **IBERGRID: Special Topics - Auditório (09:30 - 11:00)**

-Conveners: Davide Salomoni

time	[id] title	presenter
09:30	[17] Development of Multi-Level Biomolecular Simulation Protocols for Aptamer Engineering for Biomedical Applications	SOUSA, Sergio F.
10:00	[8] Infrastructure Manager: A Deployment Service for the Computing Continuum	MOLTÓ, Germán
10:20	[20] INCD's new cloud infrastructure	DAVID, Mário
10:40	[28] Cloud bursting to commercial providers with Kubernetes	BERNARDO, Samuel

## **IBERGRID: Datacenters and Infrastructures - Auditório (11:30 - 13:00)**

-Conveners: Zacarias Benta

time	[id] title	presenter
11:30	[49] CESGA status report	FERNANDEZ SANCHEZ, Carlos CACHEIRO, Javier
11:45	[48] DESY status report	WETZEL, Tim
12:00	[51] INFN status report	
12:15	[50] IISAS status report	TRAN, Viet
12:30	[23] INCD Helpdesk: Migration from RT to Zammad	MACHADO, João
12:45	[1] INCD status report	GOMES, Jorge

## **IBERGRID: Closing - Auditório (13:00 - 13:15)**