Publications

Journal Publications

- 2024 Improving detection of asphalt distresses with deep learning-based diffusion model for intelligent road maintenance
- 2024 Frouros: An open-source Python library for drift detection in machine learning systems
- 2024 An end-to-end computer vision system based on deep learning for pavement distress detection and quantification
- 2023 Study of the performance and scalability of federated learning for medical imaging with intermittent clients' ha sido eliminado
- 2023 Novel deep learning method for coronary artery tortuosity detection through coronary angiography
- 2023 Forecasting COVID-19 spreading through an ensemble of classical and machine learning models: Spain's case study
- 2023 Deep learning based soft-sensor for continuous chlorophyll estimation on decentralized data
- 2023 A deep learning model for prognosis prediction after intracranial hemorrhage
- 2022 Structural brain alterations associated with suicidal thoughts and behaviors in young people: results from 21 international studies from the ENIGMA Suicidal Thoughts and Behaviours consortium
- 2022 Rationale and design of the brain magnetic resonance imaging protocol for FutureMS: a longitudinal multi-centre study of newly diagnosed patients with relapsing-remitting multiple sclerosis in Scotland
- 2022 A Python library to check the level of anonymity of a dataset
- · 2022 A mathematical justification for metronomic chemotherapy in oncology
- 2022 A first update on mapping the human genetic architecture of COVID-19
- 2020 Software Quality Assurance in INDIGO-DataCloud project: a converging evolution of software engineering practices to support European Research e-Infrastructures
- 2020 Estimation of high frequency nutrient concentrations from water quality surrogates using machine learning methods
- 2020 Deep learning for proactive network monitoring and security protection
- 2020 DEEPaaS API: a REST API for machine learning and deep learning models
- 2020 DataCloud infrastructure to manage FAIR environmental data
- · 2020 A cloud-based framework for machine learning workloads and applications
- 2019 Open is not enough
- 2019 Machine Learning and Deep Learning frameworks and libraries for large-scale data mining: a survey
- 2019 An efficient cloud scheduler design supporting preemptible instances
- 2018 umd-verification: Automation of Software Validation for the EGI Federated e-Infrastructure
- 2018 Resource Provisioning in Science Clouds: requirements and challenges
- 2018 Orchestrating Complex Application Architectures in Heterogeneous Clouds
- 2018 INDIGO-DataCloud: a Platform to Facilitate Seamless Access to E-Infrastructures
- 2018 Enabling rootless Linux Containers in multi-user environments: the udocker tool
- 2016 Standards for enabling heterogeneous laaS cloud federations
- 2016 ooi: OpenStack OCCI interface
- 2016 Efficient image deployment in cloud environments
- 2015 The EGI Federated Cloud e-Infrastructure
- 2014 Validation of Grid Middleware for the European Grid Infrastructure
- 2013 Phenomenology Tools on Cloud Infrastructures using OpenStack
- 2013 Approaches to Distributed Execution of ScientificWorkflows in Kepler
- 2012 Software Provisioning process for EGI
- 2012 Integrating PROOF Analysis in Cloud and Batch Clusters
- 2012 Grid Engine batch system integration in the EMI era
- 2012 Fostering multi-scientific usage in the Iberian production infrastructure
- 2010 XMM–Newton Data Analysis with SAS Software Over GRID Technology
- 2008 Workflow-based data parallel applications on the EGEE production grid infrastructure
- 2008 The interactive European grid: Project objectives and achievements
- 2008 A Grid infrastructure for parallel and interactive applications
- 2007 A high availability solution for GRID services

Conferences

Conference Publications



- 2023 Comparison of machine learning models applied on anonymized data with different techniques
- 2021 On the use of Deep Generative Models for "Perfect" Prognosis Climate Downscaling
- 2017 Large Scale Plant Classification with Deep Neural Networks
 2017 Improved Cloud resource allocation: how INDIGO-
- DataCloud is overcoming the current limitations in Cloud schedulers
- 2016 Evolution of the open cloud computing interface
 2014 The role of IBERGRID in the Endersteed Cloud of Fill
- 2014 The role of IBERGRID in the Federated Cloud of EGI
- 2013 Identity Federation with VOMS in Cloud Infrastructures
 2013 Analysis of Scientific Cloud Computing requirements
- 2012 Production change management using Puppet, Git, Jenkins and Gerrit
- 2012 IberCloud: federated access to virtualized resources
- 2011 Software Provision Process for EGI
- 2011 Fostering multi-scientific usage in the Iberian production infrastructure
- 2011 Focusing on an integrated computing infrastructure: the IFCA experience
- 2011 Experience on running the Ibergrid infrastructure within EGI
 2010 Virtualization and network mirroring to deliver High
- Availability to Grid services • 2010 - Provisioning of Grid Middleware for EGI in the framework of
- EGI-InSPIRE
- 2010 Int.eu.grid
 2010 Ibergrid transition to
- 2010 Ibergrid transition to EGI

Conference Presentation

- 2024 Federated AI in the European Open Science Cloud
- 2022 FAIRness Evaluation, Validation and Advising with FAIR EVA
- 2022 FAIR EVA: Evaluator, Validator & Advisor
- 2022 FAIR EVA: Checking data FAIRness in data repositories
- 2022 Deep learning to estimate wine volume from one single-view image
- 2022 Artificial Intelligence to evaluate the impact of COVID-19 disease on the elderly
- 2018 Convolutional Neural Networks for Phytoplankton identification and classification
- 2017 A workbench for species identification based on images and deep learning techniques

Conference Posters

- 2023/07 Deep learning to detect coronary artery tortuosity in coronary angiography
- 2023/07 Application of federated learning to medical imaging scenarios
- 2023/05 Reliable machine learning algorithms for medical imaging
- 2023/05 Privacy preserving techniques for data science
- 2022/09 pyCANON: A Python library to check the level of anonymity of a dataset
- 2022/09 Frouros: A Python library for drift detection in Machine Learning problems
- 2022/06 SQAaaS Ensuring Software, Service and Data quality automatically in open repositories
- 2020/07 Radiologists in the regulation of the responsibilities of artificial intelligence applied to radiodiagnosis: Let's make it real.
- 2019/04 Deep Learning techniques for Satellite data: Atmospheric Corrections
- 2019/04 Deep Learning as a Service for Satellite Imagery Super-resolution
- 2013/10 Experience with a frozen computational framework from LEP age

Books

• 2023 - Inteligencia Artificial y Medicina

