Computing 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 IaaS 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