

HORIZON
2020

Designing and Enabling E-infrastructures for intensive Processing in a Hybrid DataCloud

Resultados

Información del proyecto

DEEP-HybridDataCloud

Identificador del acuerdo de subvención:
777435

DOI
[10.3030/777435](https://doi.org/10.3030/777435)

Proyecto cerrado

Fecha de la firma de la CE
31 Octubre 2017

Fecha de inicio
1 Noviembre 2017

Fecha de
finalización
30 Abril 2020

Financiado con arreglo a

EXCELLENT SCIENCE - Research Infrastructures

Coste total

€ 2 988 750,00

Aportación de la UE

€ 2 988 750,00

Coordinado por

AGENCIA ESTATAL CONSEJO
SUPERIOR DE
INVESTIGACIONES CIENTIFICAS
 España

CORDIS proporciona enlaces a los documentos públicos y las publicaciones de los proyectos de los programas marco HORIZONTE.

Los enlaces a los documentos y las publicaciones de los proyectos del Séptimo Programa Marco, así como los enlaces a algunos tipos de resultados específicos, como conjuntos de datos y «software», se obtienen dinámicamente de [OpenAIRE](#).

Resultado final

Documentos, informes (23)

[Intermediate Status Report about Use Cases](#) 

Intermediate Status Report about use case integration and Devops methods

[Available Technologies for accelerators and HPC](#) 

Assessment of available technologies for supporting accelerators and HPC, initial design and implementation plan (all tasks)

[Final Report about Use Case integration](#) 

Final Report about use case integration

[Consolidated reports from global DEEP meetings.](#) 

[First prototype of the DEEP as a Service](#) 

First prototype implementation of the DEEP as a Service solution

[Pilot testbed](#) 

Pilot testbed and integration architecture with EOSC large scale infrastructures

[Final implementation of software platform for accessing accelerators and HPC](#) 

[First Software Platform](#) 

First implementation of software platform for accessing accelerators and HPC

[Implementation of Dissemination and Exploitation Report.](#) 

[Design for the DEEP as a Service solution](#) 

Design document and work plan for the DEEP as a Service solution

[Definition of the Architecture of the Hybrid Cloud](#) 

Definition of the architecture of the High Level Hybrid Cloud

[Updated Dissemination and Exploitation Plan.](#) 

[Initial plan for Use Cases](#) 

Initial Plan on the selection of use cases and the strategy for the devops pipelines.

[High Level Hybrid Cloud solutions prototype](#) 

High Level Hybrid Cloud solutions prototype completed

[Updated reports from global DEEP meetings.](#)

[Final Report on Dissemination and Exploitation.](#)

[Final report on EOSC integration and software management activities](#)

[Communication Measures: Plan and Implementation Status.](#)

[State-of-the-art on Machine Learning frameworks](#)

State-of-the-art Deep Learning (DL), Neural Network (NN) and Machine Learning (ML) frameworks and libraries.

[Final release of High Level Hybrid Cloud](#)

Final release of High Level Hybrid Cloud solutions completed and deployed

[Dissemination and Exploitation Plan.](#)

[Status of Software releases](#)

[Final implementation of the DEEP as a Service solution](#)

Report on the final implementation of the DEEP as a Service solution.

Open Research Data Pilot (1)



[Data Management considerations and initial plan](#)

This deliverable will analyze the implications of existing Data Management Plans for the different datasets in the Case Studies, and how the derived data should be considered in the corresponding data life cycle.

Publicaciones

Libros monográficos (1)



A set of common software quality assurance baseline criteria for research projects

Autores: Orviz, Pablo; López García, Álvaro; Duma, Doina Cristina; Donvito, Giacinto; David, Mario; Gomes, Jorge

Publicado en: Edición 1, 2018

Editor: N/A

Artículos arbitrados (11)

[An Information-centric Approach for Slice Monitoring from Edge Devices to Clouds !\[\]\(dfbd6b3763a6d1d9afaa974f64e2e4b5_img.jpg\)](#)

Autores: Binh Minh Nguyen, Huan Phan, Duong Quang Ha, Giang Nguyen

Publicado en: Procedia Computer Science, Edición 130, 2018, Página(s) 326-335, ISSN 1877-0509

Editor: Elsevier

DOI: 10.1016/j.procs.2018.04.046

[A heuristics approach to mine behavioural data logs in mobile malware detection system !\[\]\(05be7c7a8995decd503647c99211f7c2_img.jpg\)](#)

Autores: Giang Nguyen, Binh Minh Nguyen, Dang Tran, Ladislav Hluchy

Publicado en: Data & Knowledge Engineering, Edición 115, 2018, Página(s) 129-151, ISSN 0169-023X

Editor: Elsevier BV

DOI: 10.1016/j.datak.2018.03.002

[A Multivariate Fuzzy Time Series Resource Forecast Model for Clouds using LSTM and Data Correlation Analysis !\[\]\(626ce8ac21792b9405bfddfea8e0c96a_img.jpg\)](#)

Autores: Nhuan Tran, Thang Nguyen, Binh Minh Nguyen, Giang Nguyen

Publicado en: Procedia Computer Science, Edición 126, 2018, Página(s) 636-645, ISSN 1877-0509

Editor: Elsevier

DOI: 10.1016/j.procs.2018.07.298

[Machine Learning and Deep Learning frameworks and libraries for large-scale data mining: a survey !\[\]\(cbd8541a32dfc32f356f5c6c994b0a21_img.jpg\)](#)

Autores: Giang Nguyen, Stefan Dlugolinsky, Martin Bobák, Viet Tran, Álvaro López García, Ignacio Heredia, Peter Malík, Ladislav Hluchý

Publicado en: Artificial Intelligence Review, 2019, ISSN 0269-2821

Editor: Kluwer Academic Publishers

DOI: 10.1007/s10462-018-09679-z

[Deep learning for weed identification based on seed images !\[\]\(1f99bf65f43889da445ecc1fe8d9504f_img.jpg\)](#)

Autores: Francisco Pando, Ignacio Heredia, Carlos Aedo Pérez, Mauricio Velayos Rodríguez, Lara Lloret Iglesias, Joel Calvo

Publicado en: Biodiversity Information Science and Standards, Edición 2, 2018, Página(s) e25749, ISSN 2535-0897

Editor: Pensoft

DOI: 10.3897/biss.2.25749

[Convolutional Neural Networks for Phytoplankton identification and classification](#)

Autores: Lara Lloret, Ignacio Heredia, Fernando Aguilar, Elisabeth Debusschere, Klaas Deneudt, Francisco Hernandez

Publicado en: Biodiversity Information Science and Standards, Edición 2, 2018, Página(s) e25762, ISSN 2535-0897

Editor: Pensoft

DOI: 10.3897/biss.2.25762

[New Method for Constructing a Visibility Graph-Network in 3D Space and a New Hybrid System of Modeling](#)

Autores: Matej Babič, Ladislav Hluchy, Peter Krammer, Branko Matovič, Ravi Kumar, Pavel Kovač

Publicado en: Computing and Informatics, Edición 36/5, 2017, Página(s) 1107-1126, ISSN 1335-9150

Editor: Slovak Academic Press Ltd.

DOI: 10.4149/cai_2017_5_1107

[Estimation of high frequency nutrient concentrations from water quality surrogates using machine learning methods](#)

Autores: María Castrillo, Álvaro López García

Publicado en: Water Research, Edición 172, 2020, Página(s) 115490, ISSN 0043-1354

Editor: Elsevier BV

DOI: 10.1016/j.watres.2020.115490

[A workbench for species identification based on images and deep learning techniques](#)

Autores: Ignacio Heredia, Lara Lloret, Jesús Marco, Francisco Pando

Publicado en: Proceedings of TDWG, Edición 1, 2017, Página(s) e20569, ISSN 2535-0897

Editor: Pensoft

DOI: 10.3897/tdwgproceedings.1.20569

[A Cloud-Based Framework for Machine Learning Workloads and Applications](#)

Autores: Alvaro Lopez Garcia, Viet Tran, Andy S. Alic, Miguel Caballer, Isabel Campos Plasencia, Alessandro Costantini, Stefan Dlugolinsky, Doina Cristina Duma, Giacinto Donvito, Jorge Gomes, Ignacio Heredia Cacha, Jesus Marco De Lucas, Keiichi Ito, Valentin Y. Kozlov, Giang Nguyen, Pablo Orviz Fernandez, Zdenek Sustr, Pawel Wolniewicz, Marica Antonacci, Wolfgang Zu Castell, Mario David, Marcus Hardt, Lara

Publicado en: IEEE Access, Edición 8, 2020, Página(s) 18681-18692, ISSN 2169-3536

Editor: Institute of Electrical and Electronics Engineers Inc.

DOI: 10.1109/ACCESS.2020.2964386

Autores: Álvaro López García

Publicado en: Journal of Open Source Software, Edición 4/42, 2019, Página(s) 1517, ISSN 2475-9066

Editor: NumFocus

DOI: 10.21105/joss.01517

Actas de congresos (4)

DEEP-HybridDataCloud

Autores: Donvito, Giacinto; Gomes, Jorge; Ferrer, A. Juan; Kozlov, Valentin; López García, Álvaro; Matyska, Ludek; Meyer, Norbert; Moltó, Germán; Tran, Viet; Castell, Wolfgang zu

Publicado en: ISC High Performance Computing, 2018

Editor: ISC High Performance Computing

DEEP: Hybrid Approach for Deep Learning

Autores: Alic, Andy S.; Antonacci, Marica; Caballer, Miguel; Campos, Isabel; Costantini, Alessandro; David, Mario; Dlugolinsky, Stefan; Donvito, Giacinto; Duma, Cristina; Gomes, Jorge; Hardt, Marcus; Heredia, Ignacio; Hluchy, Ladislav; Ito, Keiichi; Kozlov, Valentin; Lloret, Lara; López García, Alvaro; Marco, Jesus; Matyska, Ludek; Moltó, Germán; Nguyen, Giang; Orviz, Pablo; Plociennik, Marcin; Šustr,

Publicado en: 2019

Editor: ISC

[Remote Sensing Data Analytics with the Udocker Container Tool using Multi-GPU Deep Learning Systems](#) 

Autores: Cavallaro, Gabriele; Kozlov, Valentin; Götz, Markus; Riedel, Morris

Publicado en: Proc. of the 2019 conference on Big Data from Space (BiDS'2019), EUR 29660 EN, ISBN 978-92-76-00034-1,

doi:10.2760/848593
Conference on Big Data from Space (BiDS'19), Munich, Germany, 2019-02-19 - 2019-02-21, Edición 19, 2019, ISBN 978-92-76-00034-1

Editor: Publications Office of the European Union

DOI: 10.2760/848593

Rootless Containers with Udocker

Autores: Gomes, Jorge; David, Mário; Martins, João Paulo; Pina, João; Campos, Isabel; López García, Alvaro; Orviz, Pablo; Kozlov, Valentin

Publicado en: ISC High Performance (2019), Edición 7, 2019

Editor: ISC

Capítulos de libros (1)

[Benchmarking Deep Learning Infrastructures by Means of TensorFlow and Containers](#)

Autores: Adrian Grupp, Valentin Kozlov, Isabel Campos, Mario David, Jorge Gomes, Álvaro López García

Publicado en: High Performance Computing - ISC High Performance 2019 International Workshops, Frankfurt, Germany, June 16-20, 2019, Revised Selected Papers, Edición 11887, 2019, Página(s) 478-489, ISBN 978-3-030-34355-2

Editor: Springer International Publishing

DOI: 10.1007/978-3-030-34356-9_36

Conjuntos de datos

Conjuntos de datos vía OpenAIRE (1)



[Aggregated network monitoring data](#)

Autores: Dlugolinsky, Stefan; Tran, Viet; Nguyen, Giang

Publicado en: CSIC-UC - Instituto de Física de Cantabria (IFCA)

Software

Software a través de OpenAIRE (11)



[Liquid volume estimation from RGB images](#)

Autores: Cobo Cano, Miriam

Editor: Digital.CSIC

DOI: 10.20350/digitalcsic/14025; 10261/254875

[Tensorflow image classification](#)

Autores: Heredia, Ignacio

Editor: Digital.CSIC

DOI: 10.20350/digitalcsic/8597; 10261/173352

[Massive Online Data Streams \(MODS\) !\[\]\(3d8c13c92b853674f749aac6fa869926_img.jpg\)](#)

Autores: Dlugolinsky, Stefan; Tran, Viet; Nguyen, Giang

Editor: CSIC-UC - Instituto de Física de Cantabria (IFCA)

DOI: 10261/192888

[Image classification engine !\[\]\(17acf1afa8cdf0b67c53d4865a5ed469_img.jpg\)](#)

Autores: Heredia, Ignacio

DOI: 10261/194498

[indigo-dc/DEEPaaS 0.1.0 !\[\]\(e1c624d4757f08486e89482c18364c17_img.jpg\)](#)

Autores: López García, Álvaro; Orviz, Pablo

DOI: 10261/173108

[Plants classification engine !\[\]\(e9474ce1d70442456f8fe9c393ea149c_img.jpg\)](#)

Autores: Heredia, Ignacio; Lloret Iglesias, Lara

DOI: 10261/194545

[Phytoplankton classification engine !\[\]\(4146d17f71dced09c6ad789cacceaa6d_img.jpg\)](#)

Autores: Lloret Iglesias, Lara; Céspedes Sisniega, Jaime; Heredia, Ignacio

DOI: 10261/194553

[Conus classification engine !\[\]\(9a795c4c0c43d0827b424565265fc8e6_img.jpg\)](#)

Autores: Lloret Iglesias, Lara; Heredia, Ignacio

DOI: 10261/194548

[Seeds classification engine !\[\]\(fd47dc3c71882b0b4a62715dd757d994_img.jpg\)](#)

Autores: Heredia, Ignacio; Lloret Iglesias, Lara

DOI: 10261/194549

[DEEPaaS API: a REST API for Machine Learning and Deep Learning models !\[\]\(aa01ebfc70be4fd3093ce28c2f248648_img.jpg\)](#)

Autores: Alvaro Lopez Garcia

Editor: Zenodo

DOI: 10.5281/zenodo.3386128; 10.5281/zenodo.3519350

Mostrando 1-10 de 11

[Ver todos 11 los resultados](#)

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European Union, 2025

