



Introducción y repositorio de datos

Jornada de Usuarios CESGA 2023, 14.12.2023

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Outline

1. Introducción

- **Proyecto SINFONIA**
- **Instituciones y WPs**
- **CESGA en SINFONIA**

2. Repositorio

- **Prototipo inicial (Y1)**
- **Versionado anual (Y2, Y3, Final)**



Introducción

Radiation risk appraisal for detrimental effects from medical exposure during management of patients with lymphoma or brain tumour

SINFONIA

Call: NFRP-2019-2020-14

Topic: Improving low-dose radiation risk appraisal in medicine

SINFONIA es un proyecto de **4 años** cuyo **objetivo principal** es desarrollar **herramientas y metodologías novedosas** que proporcionen una **evaluación integral del riesgo** de efectos perjudiciales de la **exposición a la radiación** en **pacientes, trabajadores sanitarios, familiares, público general y el medio ambiente** durante la atención a pacientes con **sospecha o diagnóstico de linfoma y tumores cerebrales**.



Objetivos específicos

- **Herramienta basada en IA para estimación rápida** y precisa de dosis en órganos a partir de exámenes radiológicos.
- Metodología basada en **modelos computacionales** de registro deformable y **técnicas de IA** para la estimación precisa de las dosis en órganos en exámenes PET/CT.
- Evaluación del riesgo de tumores malignos inducidos por la radiación en procedimientos de medicina nuclear.
- **Herramienta de IA basada en dosimetría personalizada** para estimación rápida y precisa de dosis en órganos a partir de imágenes antes, durante y después de la radioterapia basada en fotones.
- Procedimiento para estimación de dosis personalizadas específicas recibidas por cada órgano procedente de la radiación dispersa en radioterapia basada en fotones, la radiación de neutrones y la obtención de imágenes en terapia de protones.
- Evaluación de las dosis y de los riesgos para el personal, el público y el medio ambiente.
- Determinación del grado de variabilidad de la sensibilidad a la radiación entre pacientes y desarrollo de biomarcadores para identificar a los pacientes susceptibles de desarrollar tumores secundarios inducidos por la radioterapia.
- **Repositorio de datos de imagen y no-imagen y despliegue en una plataforma online de los algoritmos de IA desarrollados. Liderado por CESGA.**
- Actividades de diseminación de resultados y recomendaciones, educación y entrenamiento para la práctica clínica.



WPs e instituciones participantes

14 instituciones de 8 países (AT, BE, CH, DE, ES, GR, PL, SE)

PARTNERS

Our multidisciplinary consortium combines the expertise of 14 partners from 8 countries. It includes major universities, research institutes, hospitals and industry partners.

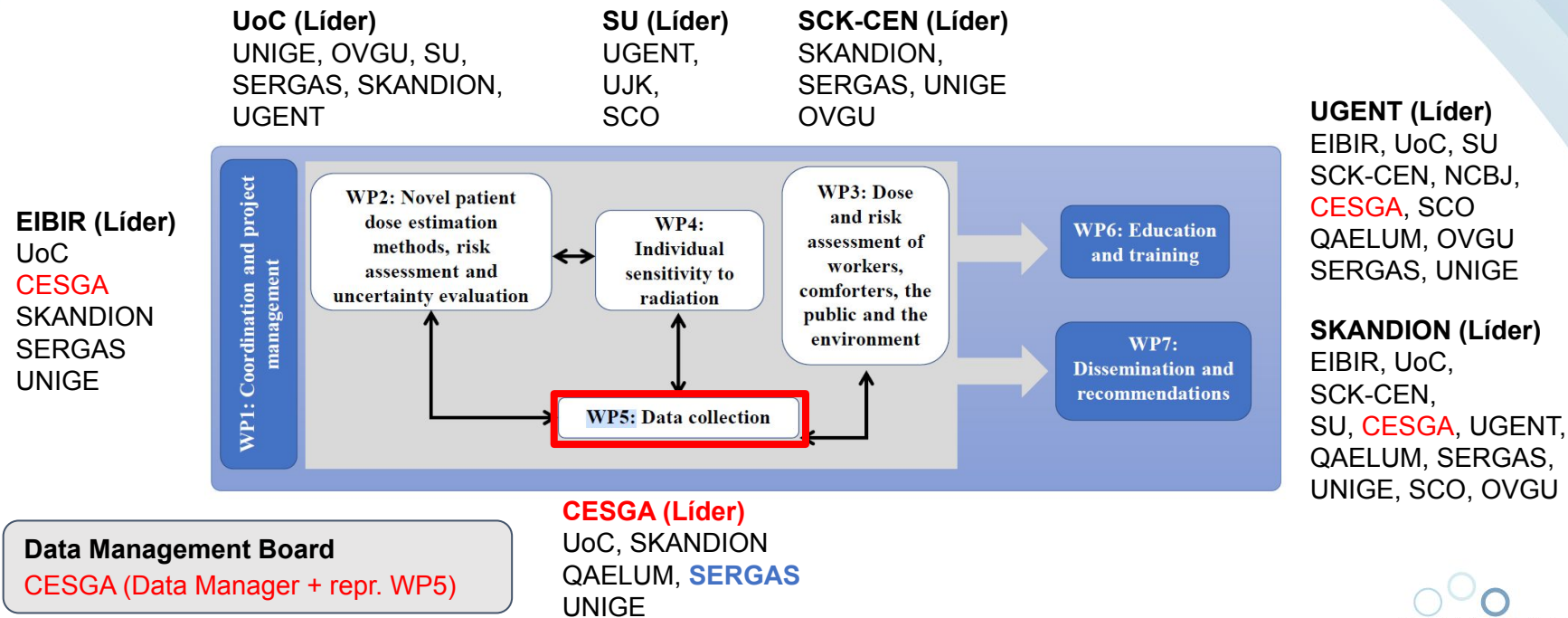


This project has received funding from the Euratom research and training programme 2019-2020 under grant agreement No 945196



WPs e instituciones participantes

Distribución de los paquetes de trabajo (WPs):



WP5: Data collection

Objetivo específico clave #5: Desarrollar y operar una plataforma para datos de dosis, imágenes y no-imágenes.

Desarrollo de técnicas para almacenar, buscar y obtener información sobre los pacientes a partir del repositorio de investigación.

- Infraestructura para **almacenar y compartir datos** (DICOM, metadata, otros) de manera eficiente.
- Cumplimiento de requisitos de **seguridad, ética y privacidad**.
- Integración, validación y **ejecución eficiente de los algoritmos de IA desarrollados**.
- Evaluación de la viabilidad para emplear los algoritmos desarrollados en un sistema de recolección automática de datos e **integración en un sistema de gestión de dosis de radiación**.



Equipo CESGA

Coordinador del departamento de aplicaciones y proyectos

- **Andrés Gómez**

Supervisión

- **José Carlos Mouriño** (TS Aplicaciones y Proyectos, líder SINFONIA en CESGA)
- **Jorge Fdez. Fabeiro** (TS Aplicaciones, TS Proyecto SINFONIA hasta Marzo 2023)

Técnicos a tiempo completo

- **Manoel Anxo Rodríguez-Moldes** (Técnico Superior Proyecto SINFONIA)
- **David Villar** (Técnico Proyecto SINFONIA)



Repositorio SINFONIA



Prototipo año 1

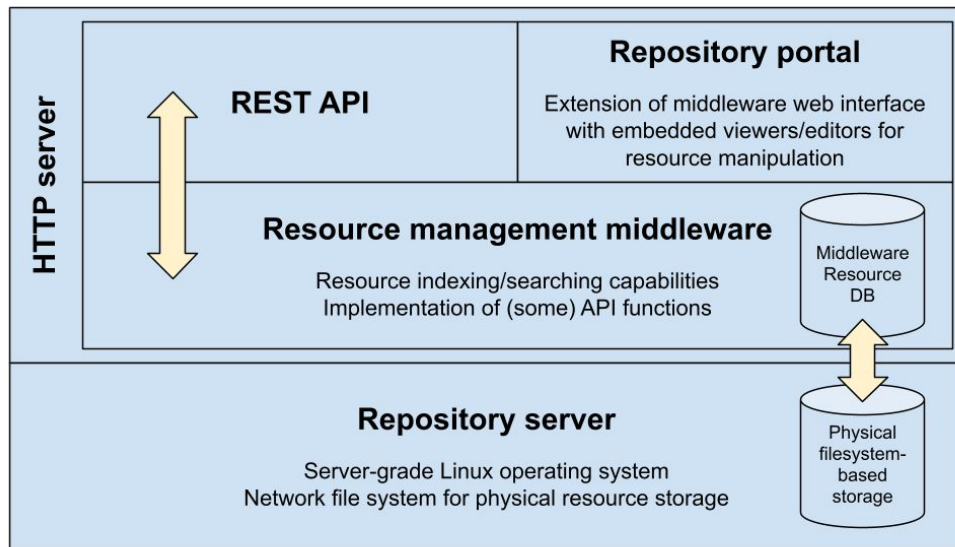
Desarrollo: Sep '20 - Jul '21

Funcionamiento: Ago '21 - Oct '22

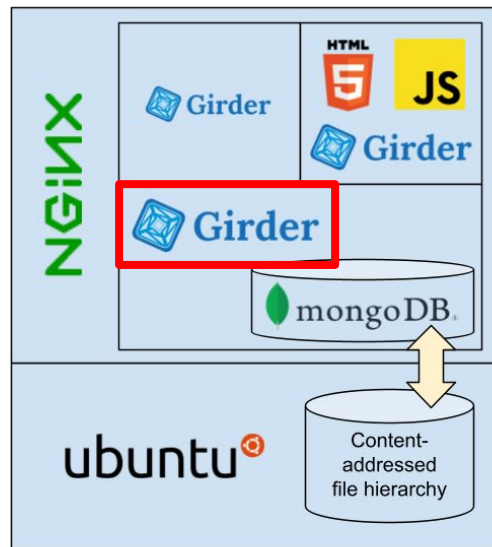


Prototipo año 1

Arquitectura e implementación:



Prototype architecture



Software implementation



Prototipo año 1

Adaptación y personalización de Girder: organización datos, aspecto, etc.

The screenshot displays the SINFONIA web application interface. The top navigation bar is dark blue with the SINFONIA logo, a search bar, and a user profile dropdown labeled 'admin'. A left sidebar contains navigation links: Home, Collections, Users, Groups, and Admin console. The main content area shows a list of collections, each with a lock icon, a title, a 'Show description' link, and creation/usage details. The collections listed are:

Collection Name	Description	Created On	Currently Using
WP2 - Patient dosimetry research	Show description	March 17, 2021 at 13:25	7.31 GB
WP3 - Community dosimetry research	Show description	March 17, 2021 at 13:27	166.16 MB
WP4 - Radiobiology research	Show description	March 17, 2021 at 13:28	0 B
WP5 - Data collection	Show description	May 12, 2021 at 17:19	0 B
WP6 - Education and training	Show description	May 12, 2021 at 17:19	0 B
WP7 - Dissemination and recommendations	Show description	May 12, 2021 at 17:19	8.76 MB

[About SINFONIA](#) [Contact](#) [Web API](#) [Privacy Policy](#)



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Prototipo año 1

Ventaja: previsualización de ficheros DICOM (imágenes y metadatos)

SINFONIA

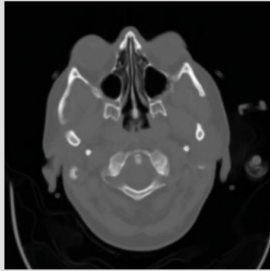
WP2 - Patient dosimetry research / SERGAS / 945196-WP2-SERGAS-BT / 945196-WP2-SERGAS-BTA-000001 / Pre-treatment / CT-pre-treatment

CT-Sep-2018

i Info

18.08 MB (18962866 bytes)
Created on April 26, 2021 at 11:58:32
Updated on April 26, 2021 at 11:58:32

DICOM



Name	Value
AcquisitionDate	Thu Sep 20 2018 00:00:00 GMT+0200 (hora de verano de Europa central)
AcquisitionNumber	2
AcquisitionTime	100148.202
BitsAllocated	16
BitsStored	12
BodyPartExamined	WHOLEBODY
Columns	512
ContentDate	Thu Sep 20 2018 00:00:00 GMT+0200 (hora de verano de Europa central)
ContentTime	100148.202
ConvolutionKernel	SA
CTDIvol	\$6.6154
DataCollectionDiameter	500
DistanceSourceToDetector	1040
DistanceSourceToPatient	570
Exposure	350
ExposureTime	1500

CT00001.dcm

Labels

Files & links

CT00001.dcm	514.40 KB	April 26, 2021 at 11:58:42
CT00002.dcm	514.40 KB	April 26, 2021 at 11:58:42
CT00003.dcm	514.40 KB	April 26, 2021 at 11:58:42
CT00004.dcm	514.40 KB	April 26, 2021 at 11:58:42



Privacidad y seguridad

SINFONIA Data Repository Users Privacy Policy

Scope of this notice

This document applies to all personal data linked to a user which is collected while registering an user account in the SINFONIA Data Repository hosted at <https://sinfonia.cesga.es>.

The de-identification of any patient or study data uploaded by the users must be performed on their local computing premises before sending the data to the central server, so it falls out of the scope of this notice.

For the purpose of this document, the term "Data protection legislation" means the European Regulation 2016/679 of the European Parliament and the European Council (General Data Protection Regulation – "GDPR"). The following terms shall have in the context of this document the meaning defined in the data protection legislation: "controller", "processor", "third party", "personal data", "data subject".

Processors of your personal data

In the context of the SINFONIA Data Repository, your data is collected and processed by the following organizations for the purposes of keeping a functioning data repository for the SINFONIA project:

Organisation	Categories of processed data	Purpose of processing	Data sources	Legal basis
CESGA (ES)	Full name Email address IP address, access date and time, generated password	Authentication Store the Data Base of the repository Store server logs to be able to examine potential technical problems or claims.	Registration form User uploads System logs	Explicit consent by the user (when requesting an account)

Legal basis for processing your personal data

Your personal data is processed based on your explicit consent expressed by requesting an account to CESGA for accessing the SINFONIA Data Repository.

Duration of storage of your personal data

SINFONIA cleaning-before-uploading guide

Preface

One of the specific challenges that the SINFONIA project pledged to address is to take into consideration risk communication and the ethics of medical applications. To achieve this, the SINFONIA proposal states that all data managed in the repository must be stored in a secure manner and be de-identified to remove all the patient identity related information. Moreover, the de-identification must be performed on the site of origin before sending the data to any server, in order to avoid any mitigation of personal data from the site to the remote repository.

Those statements make each SINFONIA member responsible for the files they upload to the project data repository. However, they must at the same time have in mind the aim of keeping a proper trade-off between the completeness needed to share valuable information among the project partners and the privacy requirements set by the regulation applicable. With relation to that, the project proposal remarks the commitment to take all measures to anonymize or remove personally identifiable information using state-of-the-art methods, in a manner that conforms to multi-national regulations on data protection, and particularly the General Data Protection Regulation (2016/679).

This guide intends to be a reference about a handful of tools that may help you to properly "clean" your files before uploading them to the repository. By "cleaning" we mean the process of removing and/or replacing personal information contained in your DICOM and non-DICOM files. We are rather using the verb "clean" instead of words like "anonymize" or "de-identify" because the latter ones have very specific meanings determined in both the DICOM standard and the aforementioned regulations and their full attainment is not trivial at all.

The rest of the document is organised as follows: first we review some background about the directives set by the DICOM standard regarding the protection of personal data and how a couple of research works implement that protection for DICOM-RT filesets, then some tools for cleaning DICOM and non-DICOM files are introduced, and finally we provide a brief summary of the content.

Background

It is common sense to remove from your files obvious personal information such as names, addresses, birth dates or identification numbers of both patients and other involved individuals (e.g.: staff, referrers, family). However, a quick review of both the GDPR and the DICOM standard will prove that common sense is not enough at all to even start a proper personal information cleaning process.

Regarding the [GDPR](#), the [Recital 35](#) considers as personal health information any number, symbol or particular assigned to a natural person to uniquely identify the natural person for health purposes, but also information derived from the testing or examination of a body part or bodily substance, including *from genetic data and biological samples, and any information on, for example, a disease, disability,*

Política de Privacidad Usuarios GDPR

Pautas de anonimización



Versión año 2

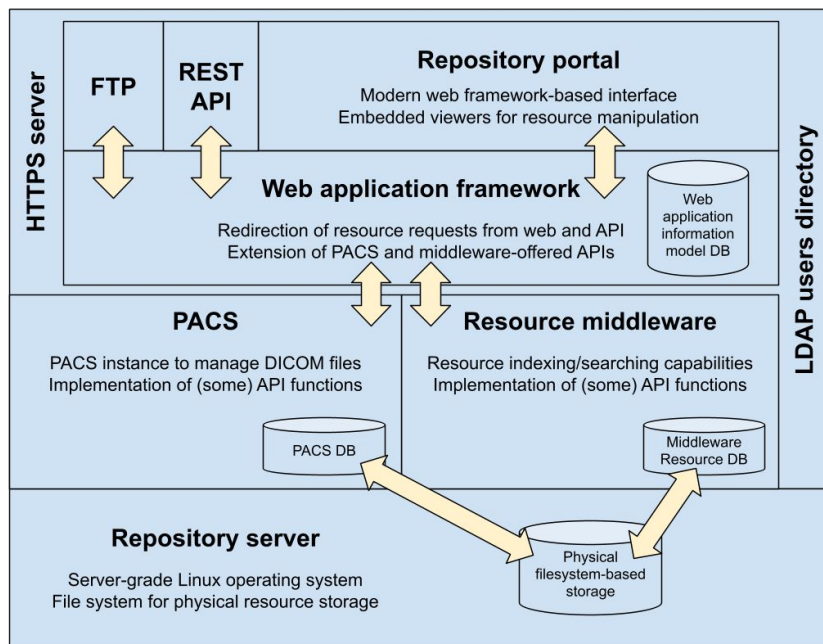
Desarrollo: Oct '21 - Sep '22

Funcionamiento: Oct '22 - Sep' 23

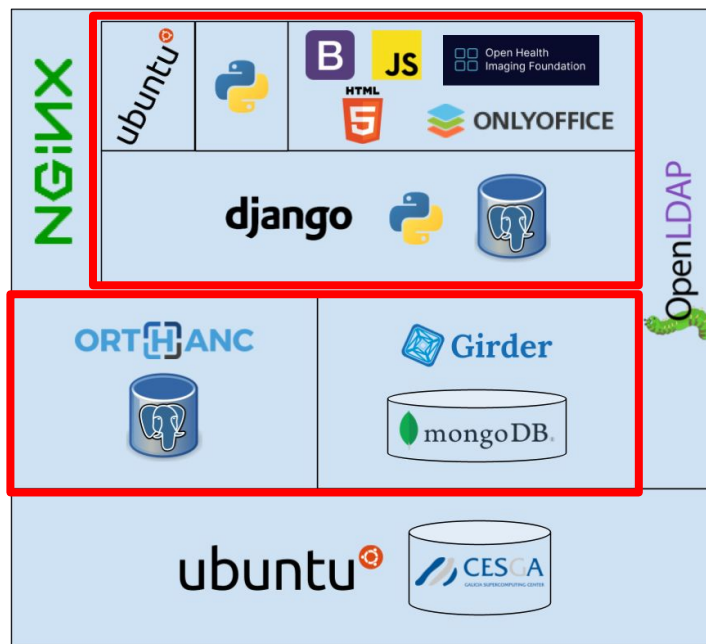


Versión año 2

Arquitectura e implementación:



Architecture block diagram



Current software stack



Versión año 2

Interfaz y organización similar al prototipo

The screenshot displays the SINFONIA project repository interface. At the top, a dark blue header contains the SINFONIA logo on the left, the text "SINFONIA project repository" in the center, and a user profile dropdown labeled "admin" on the right. Below the header, a light blue sidebar on the left features a menu icon and four buttons: "Main", "Dashboard", "Users", and "Groups". The main content area has a search bar with a magnifying glass icon and the text "Quick search...". Below the search bar, it states "Collections allowed to admin :". There are two pagination links, "1" and "2", with "2" being the active page. A list of four collections is shown, each with a folder icon, a title, an information icon, a download icon, and a delete icon. The collections are: "WP2 - Patient dosimetry research", "WP3 - Community dosimetry research", "WP4 - Radiobiology research", and "WP5 - Data collection". At the bottom, a dark blue footer contains the links "About SINFONIA", "Contact", "Privacy Policy", and "Cookie Settings".

SINFONIA project repository

admin

Quick search...

Collections allowed to **admin** :

1 2

WP2 - Patient dosimetry research ⓘ	Download	Delete
WP3 - Community dosimetry research ⓘ	Download	Delete
WP4 - Radiobiology research ⓘ	Download	Delete
WP5 - Data collection ⓘ	Download	Delete

About SINFONIA | Contact | Privacy Policy | Cookie Settings



Versión año 2

Carpetas con listas de control de acceso para grupos y/o usuarios

The screenshot displays the SINFONIA web interface. A modal dialog titled 'Access control list' is open, showing the permissions for the 'UoC cases' folder. The dialog includes a search bar for users/groups and two radio buttons to select the scope of the permissions: 'Apply permissions only to this folder, not its subfolders' (selected) and 'Also set permissions on all subfolders to match this folder's permissions'.

Access control list

☐ Private - Access is required to view this folder
☒ Public - Anyone can view this folder

User/Group	Permission	Action
CESGA	Can edit	X
SERGAS	Can edit	X
WP2	Can edit	X
UoC	Can view	X
UNIGE	Can edit	X
admin	Is owner	X
jstratak	Is owner	X

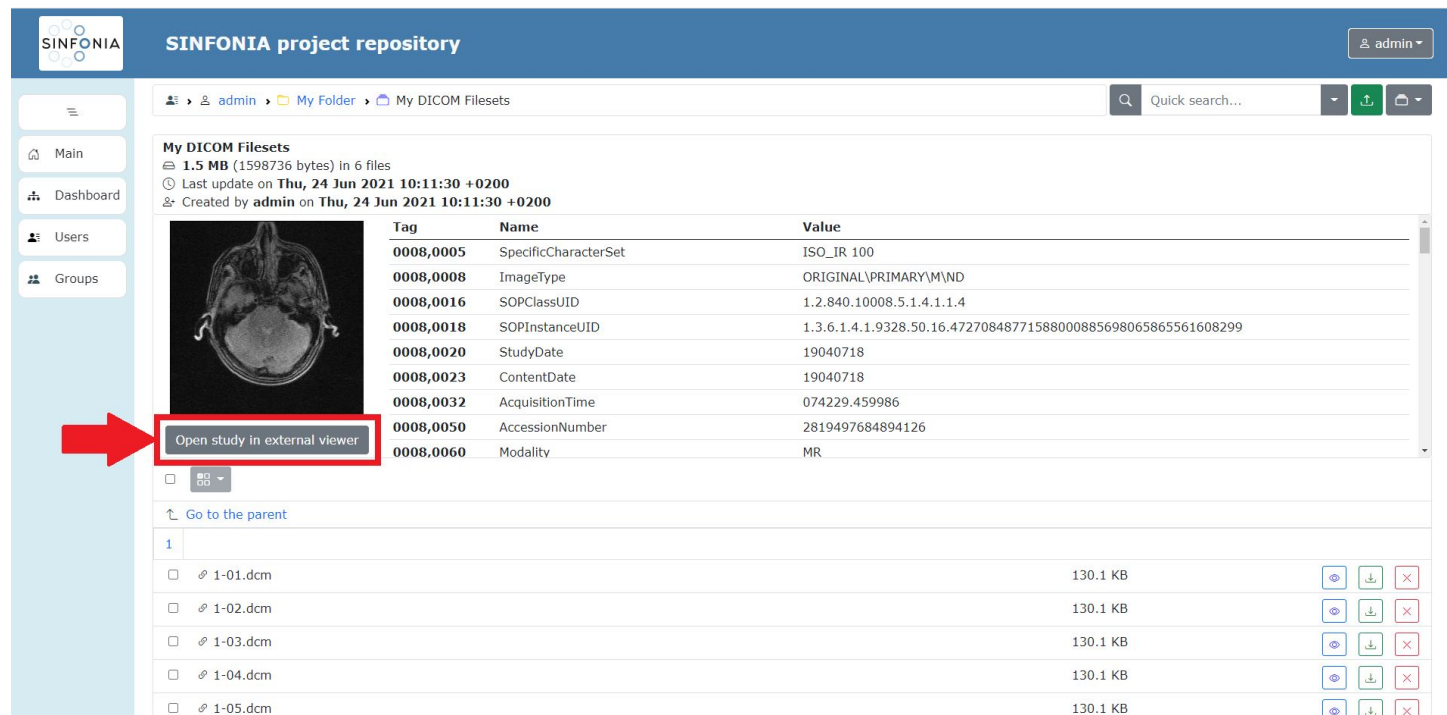
Search users/groups

☒ Apply permissions only to this folder, not its subfolders
☐ Also set permissions on all subfolders to match this folder's permissions

Close Save changes

Versión año 2

Previsualizador de imágenes y metadatos (datos obtenidos del PACS vía API)



The screenshot displays the SINFONIA project repository interface. On the left is a sidebar with navigation links: Main, Dashboard, Users, and Groups. The main content area shows a DICOM study titled "My DICOM Filesets" with a thumbnail of a brain scan. Below the thumbnail is a red-bordered button labeled "Open study in external viewer", which is pointed to by a red arrow. To the right of the thumbnail is a table of DICOM metadata.

Tag	Name	Value
0008,0005	SpecificCharacterSet	ISO_IR 100
0008,0008	ImageType	ORIGINAL\PRIMARY\M\ND
0008,0016	SOPClassUID	1.2.840.10008.5.1.4.1.1.4
0008,0018	SOPInstanceUID	1.3.6.1.4.1.9328.50.16.47270848771588000885698065865561608299
0008,0020	StudyDate	19040718
0008,0023	ContentDate	19040718
0008,0032	AcquisitionTime	074229.459986
0008,0050	AccessionNumber	2819497684894126
0008,0060	Modality	MR

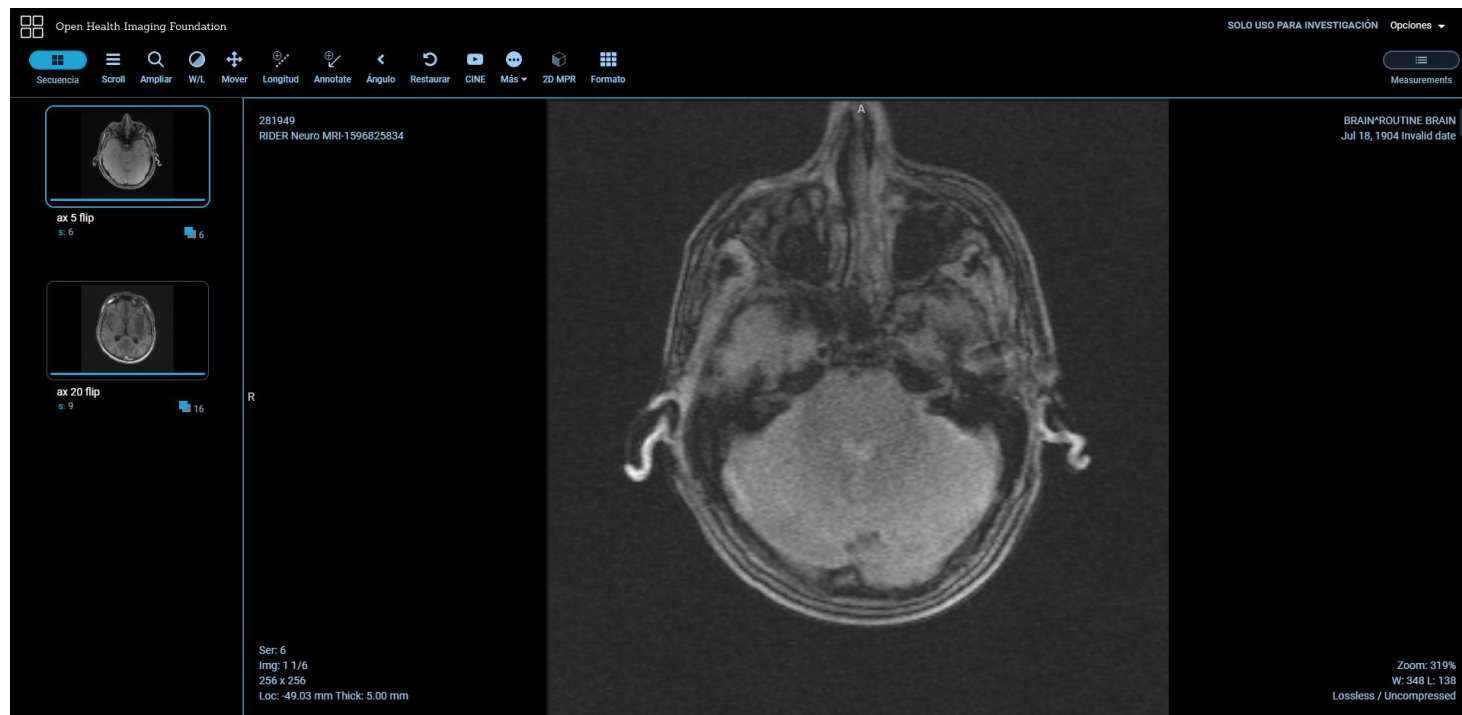
Below the metadata table is a list of image files:

File Name	Size	Actions
1-01.dcm	130.1 KB	View Download Delete
1-02.dcm	130.1 KB	View Download Delete
1-03.dcm	130.1 KB	View Download Delete
1-04.dcm	130.1 KB	View Download Delete
1-05.dcm	130.1 KB	View Download Delete



Versión año 2

Visor DICOM para investigación (datos obtenidos del PACS vía DICOMweb)



Versión año 2

Listas paginadas

SINFONIA

SINFONIA project repository

admin

Menu

Main

Dashboard

Users

Groups

945196-WP2-SERGAS-BTA-000006 > Treatment > Treatment

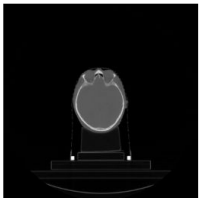
Quick search...

Treatment

433.2 MB (454197724 bytes) in 704 files

Last update on Mon, 20 Jun 2022 14:32:30 +0200

Created by mriveira on Mon, 20 Jun 2022 14:32:30 +0200



Open study in external viewer

Tag	Name	Value
0008,0008	ImageType	ORIGINAL\PRIMARY\AXIAL
0008,0012	InstanceCreationDate	20220620
0008,0013	InstanceCreationTime	140636
0008,0016	SOPClassUID	1.2.840.10008.5.1.4.1.1.2
0008,0018	SOPInstanceUID	1.2.246.352.221.475745742499999338414876860036664302239
0008,0020	StudyDate	20210421
0008,0021	SeriesDate	20210421
0008,0022	AcquisitionDate	20210421
0008,0023	ContentDate	20210421

Go to the parent

11

1.1 MB

514.6 KB

1.1 MB

514.6 KB



Versión año 2

Protocolo FTP para cargas/descargas de grandes volúmenes de datos

The image displays two overlapping windows. The top window is FileZilla, showing an FTP connection to 'sftp://admin@sinfonia.cesga.es:8022'. The connection fields (Server, Username, Password, Port) are highlighted with a red box. The bottom window is the SINFONIA project repository interface. It features a sidebar with navigation links (Main, Dashboard, Users, Groups) and a main content area. A red box highlights the 'Explore your FTP space' button. An 'Elements currently picked' dialog box is open, listing files: 'Centos_full.png', 'Django_logo.png', and 'Girder_Logo.png'. A red box highlights the 'Upload to your repo user folder' button in this dialog.

FileZilla window: sftp://admin@sinfonia.cesga.es:8022 - FileZilla

Fields highlighted in FileZilla:

- Servidor: sftp://sinfonia.cesga
- Nombre de usuario: admin
- Contraseña:
- Puerto: 8022

SINFONIA project repository interface:

- Buttons: Main, Dashboard, Users, Groups
- Highlighted button: Explore your FTP space

Elements currently picked dialog:

- Files: Centos_full.png, Django_logo.png, Girder_Logo.png
- Highlighted button: Upload to your repo user folder



Versión año 2

Asociación de identificadores propios del proyecto

Create fileset

Name

NewFilesetWithSinfoniaID

Description

Test for SINFONIA IDs

☒ Compose a SINFONIA ID for this fileset

General part

945196 - WP

5

 T

2

 - CESGA - xxxxxx

Specific part

YOURCODE

Close

Create new fileset

SINFONIA

SINFONIA project repository

admin

Hola

NewFilesetWithSinfoniaID

Quir

NewFilesetWithSinfoniaID

Test for SINFONIA IDs

SINFONIA ID: 945196-WP5-T2-CESGA-xovnjn-YOURCODE

Last update on Tue, 11 Oct 2022 17:19:53 +0200

Created by admin on Tue, 11 Oct 2022 17:19:53 +0200

Go to the parent

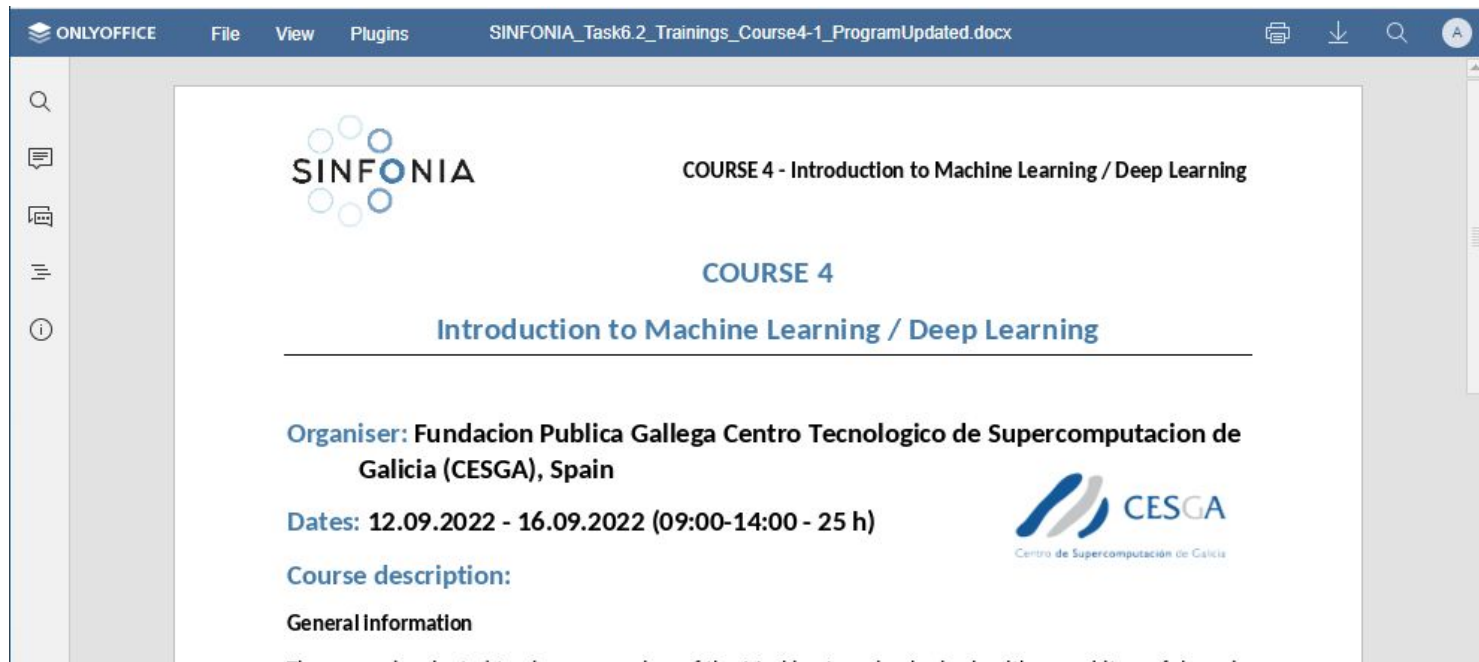
The SINFONIA logo consists of the word "SINFONIA" in a bold, sans-serif font. To the left of the text is a circular graphic composed of several small, light blue circles arranged in a larger circular pattern.

 This project has received funding from the Euratom research and training programme 2019-2020 under grant agreement No 945196

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Versión año 2

Previsualizador de documentos de ofimática

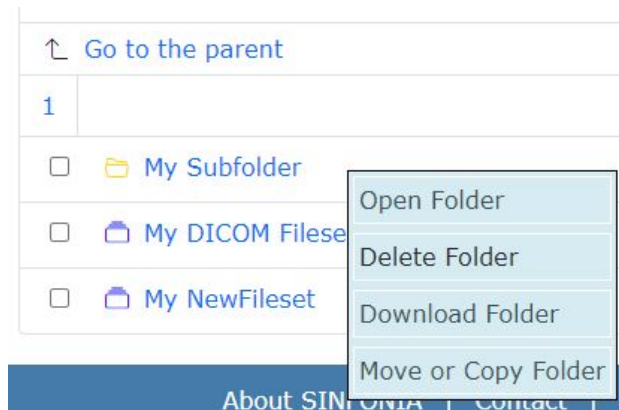
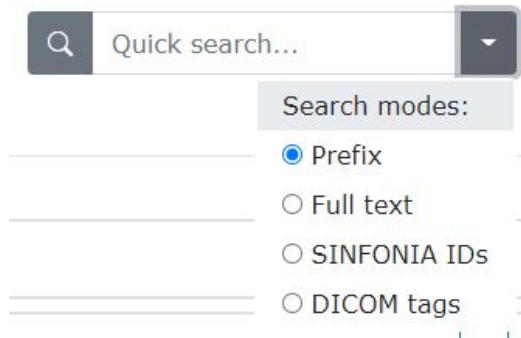


The screenshot shows the ONLYOFFICE document viewer interface. The top menu bar includes 'ONLYOFFICE', 'File', 'View', 'Plugins', and the document title 'SINFONIA_Task6 2_Trainings_Course4-1_ProgramUpdated.docx'. On the left, there is a sidebar with icons for search, chat, comments, and a menu. The main document area displays the SINFONIA logo (a cluster of blue circles) and the text 'COURSE 4 - Introduction to Machine Learning / Deep Learning'. Below this, it says 'COURSE 4' and 'Introduction to Machine Learning / Deep Learning' underlined. Further down, the 'Organiser' is listed as 'Fundacion Publica Gallega Centro Tecnologico de Supercomputacion de Galicia (CESGA), Spain'. The 'Dates' are '12.09.2022 - 16.09.2022 (09:00-14:00 - 25 h)'. The 'Course description:' section is partially visible. To the right of the text is the CESGA logo, which consists of a stylized blue and grey graphic followed by the text 'CESGA' and 'Centro de Supercomputación de Galicia' below it.



Versión año 2

Métodos de búsqueda / Menú contextual / Drag-and-drop



Versión año 2

Modo oscuro para entornos con poca iluminación (p.ej.: salas de imagen)

 **SINFONIA project repository** admin

Main

Dashboard

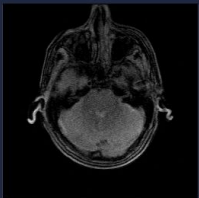
Users

Groups

admin > My Folder > My DICOM Filesets

Quick search...

My DICOM Filesets
1.5 MB (1598736 bytes) in 6 files
Last update on **Thu, 24 Jun 2021 10:11:30 +0200**
Created by **admin** on **Thu, 24 Jun 2021 10:11:30 +0200**



Open study in external viewer

Tag	Name	Value
0008,0005	SpecificCharacterSet	ISO_IR 100
0008,0008	ImageType	ORIGINAL\PRIMARY\MWD
0008,0016	SOPClassUID	1.2.840.10008.5.1.4.1.1.4
0008,0018	SOPInstanceUID	1.3.6.1.4.1.9328.50.16.47270848771588000885698065865561608299
0008,0020	StudyDate	19040718
0008,0023	ContentDate	19040718
0008,0032	AcquisitionTime	074229.459986
0008,0050	AccessionNumber	2819497684894126
0008,0060	Modality	MR

Go to the parent

1

1-01.dcm	130.1 KB	
1-02.dcm	130.1 KB	
1-03.dcm	130.1 KB	
1-04.dcm	130.1 KB	
1-05.dcm	130.1 KB	

Versión año 3 - <https://sinfonia.cesga.es>

En desarrollo: Oct '22 - Ago' 23

Funcionamiento: Sep '23 - *Jun' 24* (previsión)



Versión año 3

Selección y manipulación de recursos (listar, mover/copiar, descargar)

Elements currently picked

*Hover over a resource entry to know its full path
Click in the X for remove it*

Repository

- test-20230828
- Several Logos.zip
- data.csv

Delete elements Download elements Move **Copy**

FTP

- test-files-for-ftp
- TCIA curation process.png

Delete elements Download elements Copy

Delete all Unselect all G. DICOM hierarchy Close

Copy this elements to ...

You can do a click to select a element. Double click to open the folder, item or collection You can select: folder,item,collection

▶	WP2 - Patient dosimetry research	35.8 GB
▶	WP3 - Community dosimetry research	54.7 GB
▶	WP4 - Radiobiology research	1.1 GB
▼	WP5 - Data collection	648.1 MB
▶	Folder2	300.0 KB
▶	Folder3	0 B
▶	FromFTP	0 B
▼	My Folder	0 B
▶	My Subfolder	0 B
▶	WP6 - Education and training	626.8 KB
▶	WP7 - Dissemination and recommendations	17.3 MB
▶	MyFolder	3.4 GB
▶	FTP	

Send Close

Versión año 3

Papelera de reciclaje para recursos eliminados

**SINFONIA project repository**

admin

Main

Dashboard

Users

Groups

FTP

Trashbin

TrashBin

TrashBin

1.0 MB (1055736 bytes) in 1 fileset

Last update on **Mon, 03 Apr 2023 14:20:49 +0200**

Created by **admin** on **Mon, 03 Apr 2023 14:20:49 +0200**

Elements per page: 4

☐	upload_admin_20230522_223826+0200	87.9 KB	
☐	SampleVideo_1280x720_1mb.mp4	1.0 MB	

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 This project has received funding from the Euratom research and training programme 2019-2020 under grant agreement No 945196

Powered by CESGA 

Versión año 3

Previsualización y extracción remota de **ficheros ZIP**

The image shows a web interface for previewing ZIP contents and a modal dialog for unzipping. The preview window, titled "Preview of ZIP contents", shows the "Root of zip" with a list of items: "Folder 4mb_files", "Folder 20mb_files", "Highlighted user needs summary diagram.jpg", "Updated information model.jpg", and "Y1 prototype architecture.jpg". A red box highlights the "Unzip in the Repository" button, with a red arrow pointing to the "Unzip" dialog box.

Preview of ZIP contents

Root of zip

- Folder 4mb_files
- Folder 20mb_files
- Highlighted user needs summary diagram.jpg
- Updated information model.jpg
- Y1 prototype architecture.jpg

Unzip

Please select the folders and files you want to unzip

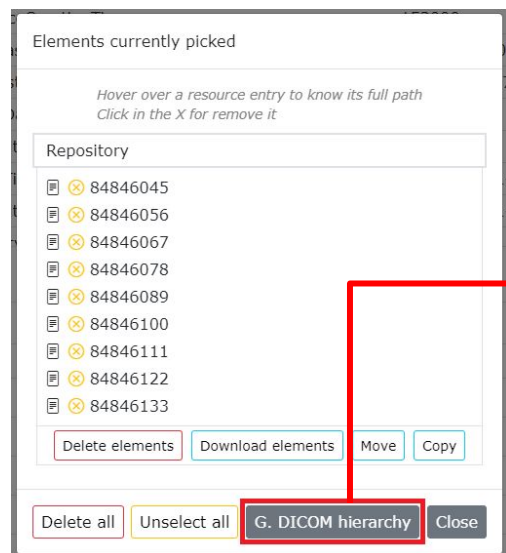
Many of the files will be saved together in filesets. If they share a folder with another folder, they will be saved separately.

- ☐ Folder
- ☐ Folder 4mb_files/
 - ☐ File 4mb_files/test-file-for-ftp-1.bin
 - ☒ File 4mb_files/test-file-for-ftp-2.bin
 - ☒ File 4mb_files/test-file-for-ftp-3.bin
 - ☐ File 4mb_files/test-file-for-ftp-4.bin
 - ☐ File 4mb_files/test-file-for-ftp-5.bin
- ☐ Folder 20mb_files/
 - ☐ File 20mb_files/test-file-1.bin
 - ☐ File 20mb_files/test-file-2.bin
 - ☒ File 20mb_files/test-file-3.bin
 - ☐ File 20mb_files/test-file-4.bin
 - ☐ File 20mb_files/test-file-5.bin
- ☐ File Highlighted user needs summary diagram.jpg
- ☐ File Updated information model.jpg
- ☐ File Y1 prototype architecture.jpg

Unzip all the content in repo **Unzip selection in repo**

Versión año 3

Generación de jerarquías de directorios según modelo de datos DICOM



Final del proyecto

Versión definitiva: Junio 2024, reunión final de proyecto

Funcionalidades esenciales (*en desarrollo*):

- Plataforma de ejecución de algoritmos de IA
- Interfaz de de programación de aplicaciones (API)

Mejoras y funcionalidades adicionales:

- Tratamiento e identificación de grandes conjuntos de datos
- Mecanismo de apertura y registro de usuarios externos



Boceto plataforma IA

**SINFONIA project repository**

admin

Main

Dashboard

AI

Users

Groups

FTP

Trashbin

Inference

Upload Model

Artificial Intelligence Inference

Source. It can be any file

Selected a file from Girder

Model

Mobile Classification

Description:
-This is the base model description. This MUST be replaced

Inputs:
-This is the base model description. This MUST be replaced

Outputs:
-This is the base model description. This MUST be replaced

Send

Results

All results will be displayed here if possible, and can be saved.

After the counter reaches 0, the processed data will be deleted

Time before the file is delete from the TMP

01:28

["(1) 981 - volcano: 0.16802269220352173", "(2) 35 - leatherback turtle: 0.13407547771930695", "(3) 148 - grey whale: 0.12729817628860474", "(4) 979 - seashore: 0.09602680057287216", "(5) 977 - promontory: 0.03194032609462738"]

Save it in ...

About SINFONIA

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This project has received funding from the Euratom research and training programme 2019-2020 under grant agreement No 945196

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Boceto plataforma IA

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Upload Model

Send a Model

Send a model and its info, and the SINFONIA technicians will upload it to the repository

Model Name:

Model Description:

Model Env:

Expected Model Input:

Expected Model Output:

Model weights (.h5 file or alike):

No se han seleccionado archivos.

Send

Más que repositorio...

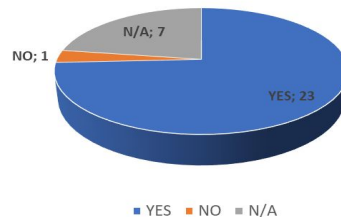
- **Curso de ML SINFONIA (12-15 septiembre 2022)**



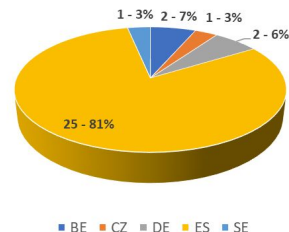
Invited lecturers:

- Prof. John Damilakis (UoC)
- Prof. Habib Zaidi (UNIGE)

Satisfaction with the workshop



Attendees to the workshop by country



- **Presentaciones a CIFPs en visitas al CESGA**





GRACIAS



SINFONIA TEAM

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