

REPOSITÓRIO DE DADOS DE INVESTIGAÇÃO NO INESC TEC

FÓRUM GDI – 2024/11/22

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SOBRE

Welcome to the INESC TEC research data repository.

This data repository showcases datasets produced or used by INESC TEC researchers and their partners. It is an embodiment of our institutional commitment to Open Data in research.



- **Desde 2017 – pouco depois do estabelecimento das UE Guidelines on FAIR data (2016)**
- **Criação do DOI através do Data Cite**
- **Metadados standardizados e customizados**
- **Backups diários e redundantes ao fim de semana**



ANODE, an underwater dataset for sacrificial anode detection

The ANODE dataset was created in the context of the ATLANTIS project and contains 18230 images collected at the ATLANTIS Test Center in Viana do Castelo, more specifically at the DURIOUS buoy, designed to test robotic platforms for O&M, and at the CRAS interior pool. The images depict Cathodic Protection Systems (CPSs), namely sacrificial anodes, which serve as a shield to protect a maritime structure from corrosion. This dataset serves to train Deep Learning object detectors. The ANODE dataset images were manually annotated and the correspondent labels are also available in txt files, one for each image. The txt files contain 5 values: the first correspondent to the object class and the other four to the bounding box information. These four values are normalized with respect to the image width and height (the top-left corner of the image is the origin): - x coordinate center point of the bounding box; - y coordinate center point of the bounding box; - bounding box width; - bounding box height.

Data and Resources

 ReadMe General information about the dataset.	Explore
 ANODE Sample Folder containing some images and labels from the dataset.	Explore
 Fifish Durius 2023-09-27 (1) Folder containing the dataset images (in PNG format) and labels collected...	Explore
 Fifish Durius 2023-09-27 (2) Folder containing the dataset images (in PNG format) and labels collected...	Explore
 Fifish Durius 2023-09-27 (3) Folder containing the dataset images (in PNG format) and labels collected...	Explore



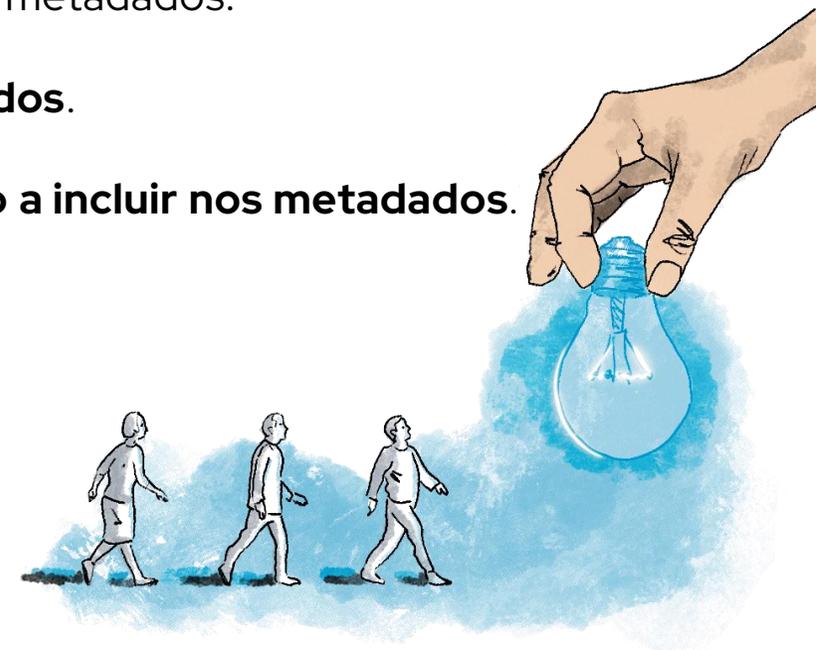
- Disponibiliza datasets produzidos por investigadores do INESC TEC ou de parceiros em projetos de investigação – como suporte aos DMP dos projetos.
- Todos os depósitos são mediados pelo *data steward*.
- Dados sensíveis requerem intervenção do **Data Protection Officer** da instituição.
- Oferta diversificada de datasets, tais como:
 - Inteligência Artificial
 - Bioengenharia
 - Robótica
 - Sistemas de Energia.
- Utilizadores **não necessitam de registo**.

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O PROCESSO DE DEPÓSITO

Um compromisso entre flexibilidade e qualidade

1. Investigador **solicita apoio** para a publicação dos dados.
2. Data steward solicita ao investigador que preencha um **template de metadados** e forneça algumas informações importantes. É necessário preencher um conjunto mínimo de metadados.
3. Investigador devolve o **template preenchido** e **fornece conjunto de dados**.
4. Data steward **publica os dados e gera o DOI** e as **informação de citação a incluir nos metadados**.
5. **Metadados podem ser melhorados** após a publicação.



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REGISTO



<http://doi.org/10.17616/R31NJNAD>

INESC TEC Research Data Repository

Repository details

INESC TEC Research Data Repository



General

Institutions

Terms

Standards

Name of repository

INESC TEC Research Data Repository

Repository URL

<https://rdm.inesctec.pt/>

Subject(s)

Engineering Sciences Electrical Engineering Computer Science, Electrical and System Engineering
Computer Science

Description

The INESC TEC data repository showcases datasets produced or used by INESC TEC researchers and their partners. The repository is organized in four groups (institutional clusters). Computer Science, Power and Energy, Network and Intelligent Systems and Power and Energy.

Contact

joao.a.castro@inesctec.pt

Content type(s)

Scientific and statistical data formats Standard office documents Archived data Source code
Software applications Structured text Images

Keyword(s)

computer science industry networked intelligent systems systems engineering

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REGISTO



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- Electrical E...
- Systems E...
- Computer ...
- Radiation
- Climate
- All

GENERAL INFORMATION

	INESC TEC Research Data Repository
Type	Repository
Registry	Database
	10.25504/FAIRsharing.c1b8a2

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SÍNTESE FINAL



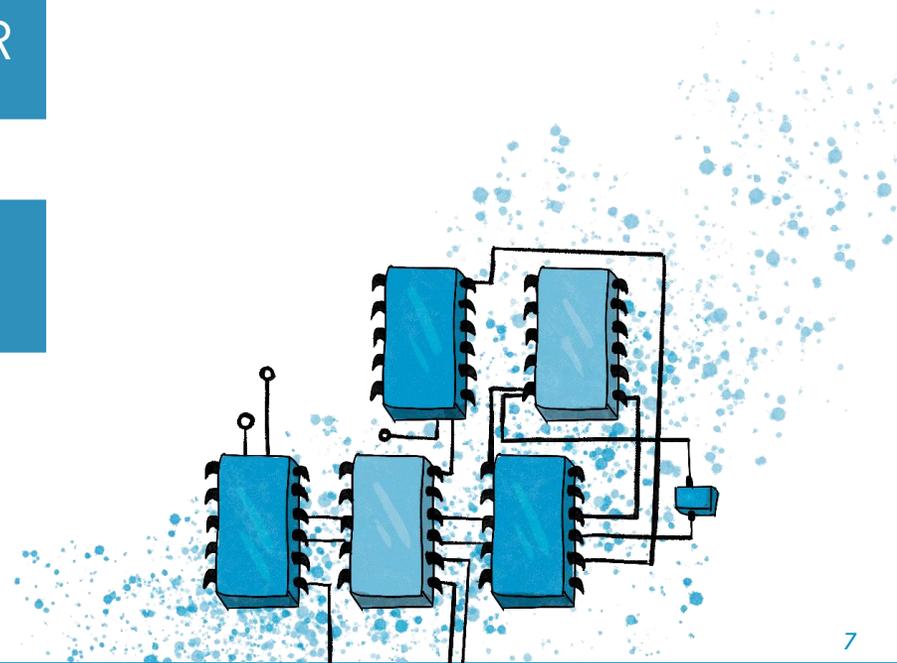
Promove a partilha de conhecimento



Garante a conformidade com as diretrizes FAIR



Suporta a excelência na investigação





SERVIÇO DE APOIO À GESTÃO



João Aguiar Castro
Data Steward

joao.a.castro@inesctec.pt



Inês Sousa
Gestão de Informação

ines.sousa@inesctec.pt

WE ARE SCIENCE.
WE ARE TECHNOLOGY.
WE ARE INNOVATION.
WE ARE INESC TEC.