

How to Find the Right Dataset?

01 Define Dataset Search Criteria

Before you search, define what matters most for your use case. For this example, we're looking for a recent dataset that supports object detection and has a clearly specified license.



Before You Start

Define the criteria that matter most for your use case

Modality

Image, point cloud, BIM, text?

Task

Object detection, semantic segmentation, 3D reconstruction?

License

Open license, commercial usage?

Release year

Recent release?

Object classes

Worker, rebar, hardhat?



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02 Enter Keywords in Search Bar

From Open Construction website, you can type in this search bar and type the keywords such as object detection. That will return the candidate dataset.



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Search resources, authors, titles, or keywords ...

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LATEST CATALOG ADDITIONS



Proposed by @DanielSchulz

DATASET2025

Electrical INstallation
Symbols from
Architectural Plans
(ELINA) Dataset



Proposed by @XuguangWang

DATASET2026

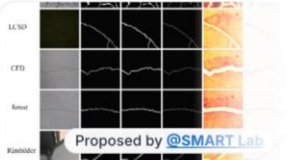
SeisMLLM-1K: A
Multimodal Dataset for
Post-Earthquake
Building Safety



Proposed by @AndreaCarrara

DATASET2026

CubiCasa5k-ScanShift
Rasterized CAD images ·
4996 models



Proposed by @SMARTLab

MODEL2026

Multi-task Crack
Foundation Model for
Engineering-Reliable
Crack Representation

03 Open Dataset Catalog

Or you can go to the direct dataset catalog. You can simply open catalog and select dataset



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LATEST CATALOG ADDITIONS



Proposed by @DanielSchulz

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ELectrical INstallation Symbols from Architectural Plans (ELINA) Dataset



Proposed by @XuguangWang

DATASET2026

SeisMLLM-1K: A Multimodal Dataset for Post-Earthquake Building Safety



Proposed by @AndreaCarrara

DATASET2026

CubiCasa5k-ScanShift
Rasterized CAD images · 4996 models



Proposed by @SMARTLab

MODEL2026

Multi-task Crack Foundation Model for Engineering-Reliable Crack Representation

04 Click Dataset Card

or you can just click the dataset button here. Click the button showing the number of available datasets to view the full list in the catalog.



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Proposed by @Daniel Schultz

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ELectrical INstallation Symbols from Architectural Plans (ELINA) Dataset



Proposed by @Xuguang Wang

DATASET2026

SeisMLLM-1K: A Multimodal Dataset for Post-Earthquake Building Safety



Proposed by @Andrea Carrara

DATASET2026

CubiCasa5k-ScanShift
Rasterized CAD images · 4996 models



Proposed by @SMART Lab

MODEL2026

Multi-task Crack Foundation Model for Engineering-Reliable Crack Representation

05 Start Simple Search Task

This opens the dataset catalog, where you can search and filter available datasets. Let's start with a simple task. Here, we will search for object detection.

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Dataset Catalog

Search datasets, objects, tasks ...

Filters

Modalities

Tasks

☐ 3D Point Cloud

☐ Aerial LIDAR Point Clouds

☐ Aerial RGB

☐ BIM/IFC

☐ Geospatial Data

Show all

Search for tasks...

☐ 2D-to-BIM Reconstruction

☐ 3D Asset Retrieval

☐ 3D Object Detection

☐ 3D Object Grounding

☐ 3D Reconstruction

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169 datasets

Sort by Added date

Electrical Installation Symbols from Architectural Plans (ELINA) Dataset

Synthetic RGB image

7,200 samples · Classes 1

View details

Added 2026-08-21

SeisMLLM-1K: A Multimodal Dataset for Post-Earthquake Building Safety Evaluation

Ground RGB, Text

3,856 images (1,306 cases) · Classes 3

View details

Added 2026-08-20

CubiCasa5k-ScanShift

Rasterized CAD images

4996 models · Classes 6

View details

Added 2026-08-19

06 Search By Name or Class

You can also search by dataset name, object class, or another related terms.

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Dataset Catalog

Search datasets, objects, tasks ...

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☐ Aerial LiDAR Point Clouds

☐ Aerial RGB

☐ BIM/IFC

☐ Geospatial Data

Show all

Tasks

Search for tasks...

☐ 2D-to-BIM Reconstruction

☐ 3D Asset Retrieval

☐ 3D Object Detection

☐ 3D Object Grounding

☐ 3D Reconstruction

Show all

169 datasets

Sort by Added date

Electrical Installation Symbols from Architectural Plans (ELINA) Dataset

2025

Synthetic RGB image

7,200 samples · Classes 1

View details

Added 2026-08-21

SeisMLLM-1K: A Multimodal Dataset for Post-Earthquake Building Safety Evaluation

2026

Ground RGB, Text

3,856 images (1,306 cases) · Classes 3

View details

Added 2026-08-20

CubiCasa5k-ScanShift

2026

Rasterized CAD images

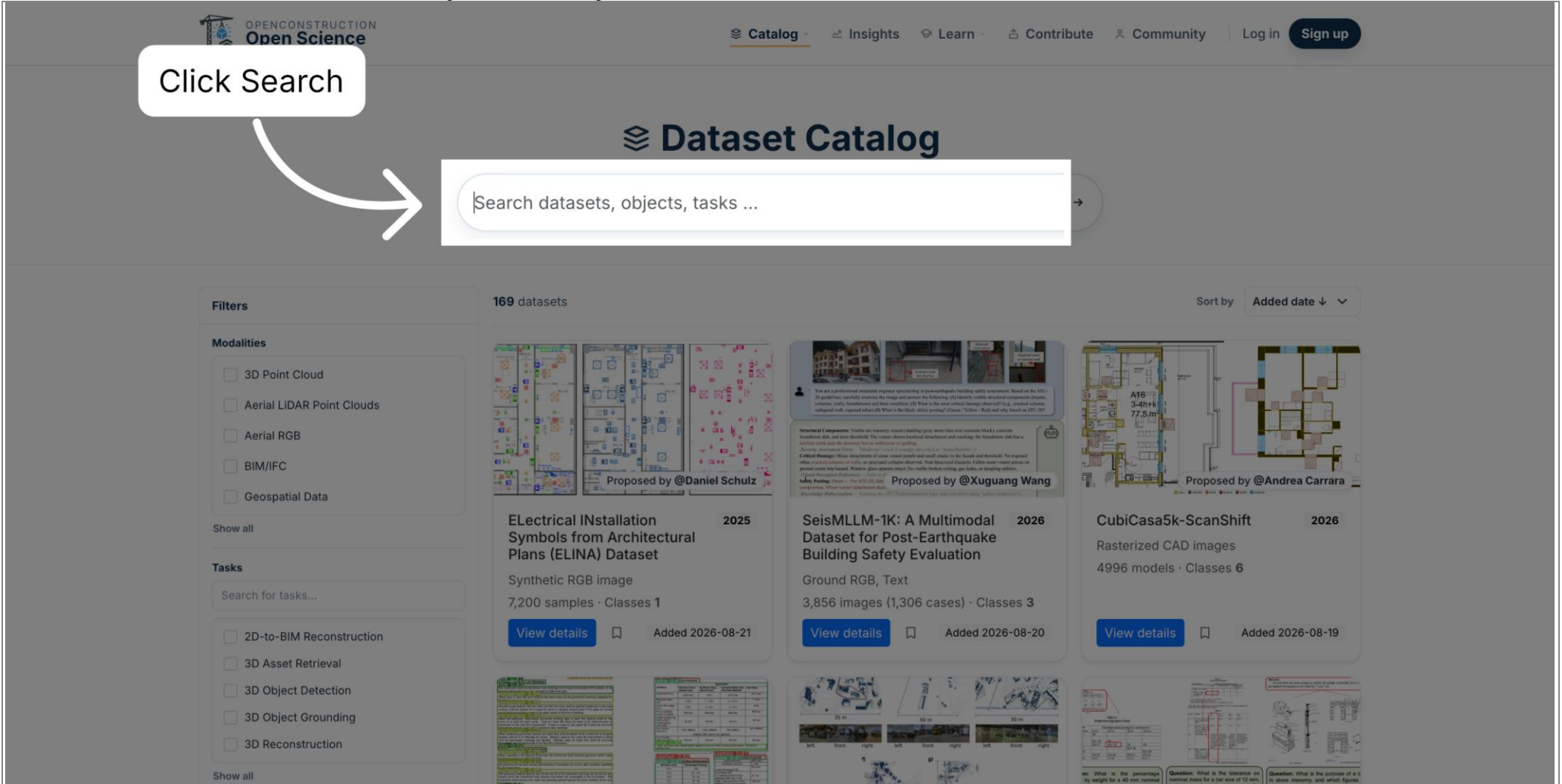
4996 models · Classes 6

View details

Added 2026-08-19

07 Initiate Large Dataset Search

Click the button to search these terms within the OpenConstruction platform.



for example Object detection. You can hit enter.

for example Object detection. You can hit enter.

09 Review Candidate Datasets

The catalog returns some candidate datasets. Then you can filter.



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 ☐ Aerial LiDAR Point Clouds
 ☐ Aerial RGB
 ☐ BIM/IFC
 ☐ Geospatial Data

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☐ 2D-to-BIM Reconstruction
 ☐ 3D Asset Retrieval
 ☐ 3D Object Detection
 ☐ 3D Object Grounding
 ☐ 3D Reconstruction

Show all

62 datasets

Sort by Added date ↓



Electrical Installation Symbols from Architectural Plans (ELINA) Dataset

2025

Synthetic RGB image
 7,200 samples · Classes 1

[View details](#)

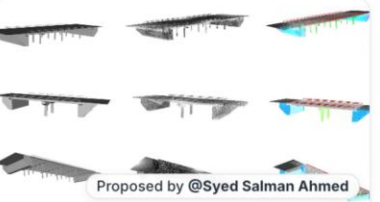


CubiCasa5k-ScanShift

2026

Rasterized CAD images
 4996 models · Classes 6

[View details](#)



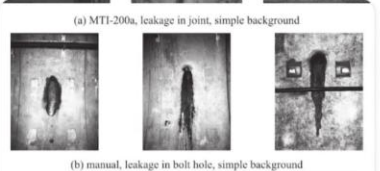
Synthetic Multimodal Dataset of Reinforced Concrete (RC) Slab Bridges

2026

3D point clouds, text, 3D models
 1,000 bridge instances · Classes 5

[View details](#)







10 Filter By Modality and License

By modality, task, license, release year, and object classes.



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 Dataset Catalog

object detection

Filters

Modalities

☐ 3D Point Cloud

☐ Aerial LiDAR Point Clouds

☐ Aerial RGB

☐ BIM/IFC

☐ Geospatial Data

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Tasks

Search for tasks...

☐ 2D-to-BIM Reconstruction

☐ 3D Asset Retrieval

☐ 3D Object Detection

☐ 3D Object Grounding

☐ 3D Reconstruction

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62 datasets

Sort by Added date



2025

Electrical Installation Symbols from Architectural Plans (ELINA) Dataset

Synthetic RGB image

7,200 samples · Classes 1

View details

Added 2026-08-21



(a) MTI-200s, leakage in joint, simple background

(b) manual, leakage in bolt hole, simple background



2026

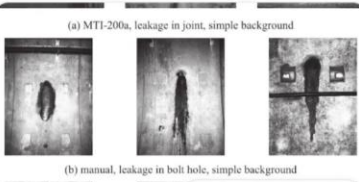
CubiCasa5k-ScanShift

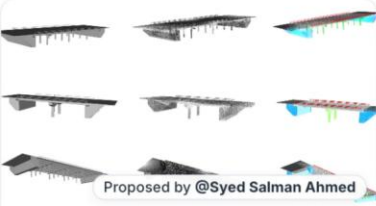
Rasterized CAD images

4996 models · Classes 6

View details

Added 2026-08-19





2026

Synthetic Multimodal Dataset of Reinforced Concrete (RC) Slab Bridges

3D point clouds, text, 3D models

1,000 bridge instances · Classes 5

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Added 2026-07-29



11 Filter By Data Type

Use the filter to narrow down the result. You can filter by modality types such as 3D point cloud or by aerial RGB.

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Dataset Catalog

object detection

Filters

☐ Aerial LiDAR Point Clouds

☐ Aerial RGB

☐ BIM/IFC

☐ Geospatial Data

Show all

Tasks

Search for tasks...

☐ 2D-to-BIM Reconstruction

☐ 3D Asset Retrieval

☐ 3D Object Detection

☐ 3D Object Grounding

☐ 3D Reconstruction

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Licenses

Search for licenses...

☐ Academic Use Only

62 datasets

Sort by Added date

Electrical Installation Symbols from Architectural Plans (ELINA) Dataset

2025

Synthetic RGB image

7,200 samples · Classes 1

View details

Added 2026-08-21

CubiCasa5k-ScanShift

2026

Rasterized CAD images

4996 models · Classes 6

View details

Added 2026-08-19

Synthetic Multimodal Dataset of Reinforced Concrete (RC) Slab Bridges

2026

3D point clouds, text, 3D models

1,000 bridge instances · Classes 5

View details

Added 2026-07-29

Cracked tie

Baseplate covered by grass

Loose spike

Baseplate region covered by ballast

Dropped clip

12 Sort By Task and License

Next, you can sort by the task or license.

[illegible]

14 Organize Results By Criteria

Next, use Sort by to organize the remaining datasets. You can sort by year, added date, name, sample count, or number of classes. For a recent dataset, sorting by Year descending is useful.



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Dataset Catalog

object detection

Filters

☐ 3D Object Grounding

☐ 3D Reconstruction

Show all

Licenses

Search for licenses...

☐ Academic Use Only

☐ AGPL 3.0

☐ Apache-2.0

☒ CC BY 4.0

☐ CC BY-NC 3.0

Show all

Release year

From 2015 to 2026

Object classes

Search for classes...

5 datasets

Sort by Added date ↓



RDD2022: A Multi-National Road Damage Dataset

2024

Ground RGB, Aerial RGB

47,420 images · Classes 4

View details

Added 2026-06-01



CUBIT-Det Dataset: High-Resolution Infrastructure Defect Detection Dataset

2024

Aerial RGB, Ground RGB

5,527 images · Classes 3

View details

Added 2026-02-27



TBBR Dataset: Thermal Bridges on Building Rooftops

2023

Aerial RGB, Hyperspectral

5,696 images · Classes 1

View details

Added 2025-09-28



Proposed by @ACID Group



15 View Dataset Details

Click the View details button to see more information about the selected dataset.

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Filters

☐ 3D Object Grounding

☐ 3D Reconstruction

Show all

Licenses

Search for licenses...

☐ Academic Use Only

☐ AGPL 3.0

☐ Apache-2.0

☒ CC BY 4.0

☐ CC BY-NC 3.0

Show all

Release year

From

2015

to

2026

Object classes

Search for classes...

☐ Door

☐ Excavator

☐ Wall

☐ Person

5 datasets

Sort byYear ↓

RDD2022: A Multi-Nation Road Damage Dataset

Ground RGB, Aerial RGB

47,420 images · Classes 4

View details

Defect Detection Dataset

Aerial RGB, Ground RGB

5,527 images · Classes 3

View details

Rebar Counting Detection

Aerial RGB

728 images · Classes 1

View details

TBBR Dataset: Thermal Bridges on Building Rooftops

Aerial RGB, Hyperspectral

5,696 images · Classes 1

View details

ACID: Advanced Construction Image Dataset Suite

Aerial RGB, Ground RGB

10,000 images · Classes 10

View details

Click View details

16 Verify Dataset Information

This is the detailed page of this dataset. Before deciding to use it, quickly confirm that the task, modality, license, release information, and original source align with your needs.

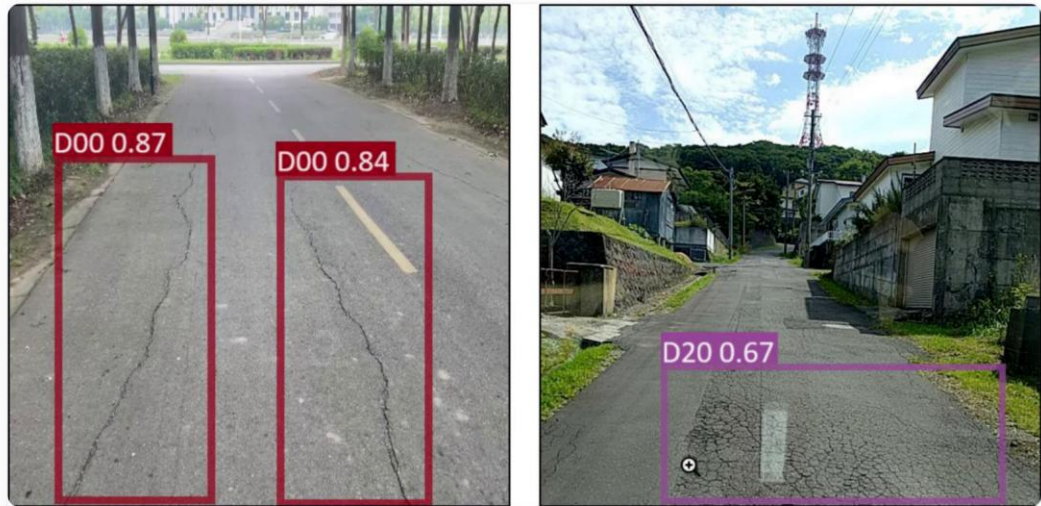


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RDD2022: A multi-national Road Damage Dataset

Deeksha Arya, Hiroya Maeda, Yoshihide Sekimoto, Hiroshi Omata, Sanjay Kumar Ghosh, Durga Toshniwal, Madhavendra Sharma, Van Vung Pham, Jingtao Zhong, Muneer Al-Hammadi, Mamoona Birkhez Shami, Du Nguyen, Hanglin Cheng, Jing Zhang, Alex Klein-Paste, Helge Mork, Frank Lindseth, Toshiyuki Sato, Alexander Mraz, Takahiro Kashiwaga - 2024

QUICK FACTS

YEAR
2024

IMAGES
47,420

CLASSES
4

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17 [Return To Catalog](#)

If the dataset is not a good fit, return to the catalog and adjust your search or filters. Finding the right dataset is usually an iterative process.

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QUICK FACTS

YEAR

2024

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47,420

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18 Refine Search Iteratively

That's it. Search, filter, verify, and refine. With OpenConstruction, you can move from a broad idea to a relevant dataset in just a few steps.



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You found a strong candidate

Find relevant data with confidence.

[Openconstruction.org](https://openconstruction.org)

Question? support@openconstruction.org