

EDAM-bioimaging

The ontology of bioimage informatics operations, topics, data, and formats

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<https://github.com/edamontology/edam-bioimaging> @edamontology /edamontology/edam-bioimaging wq4-edam_ontology@irbbarcelona.org.glip.com

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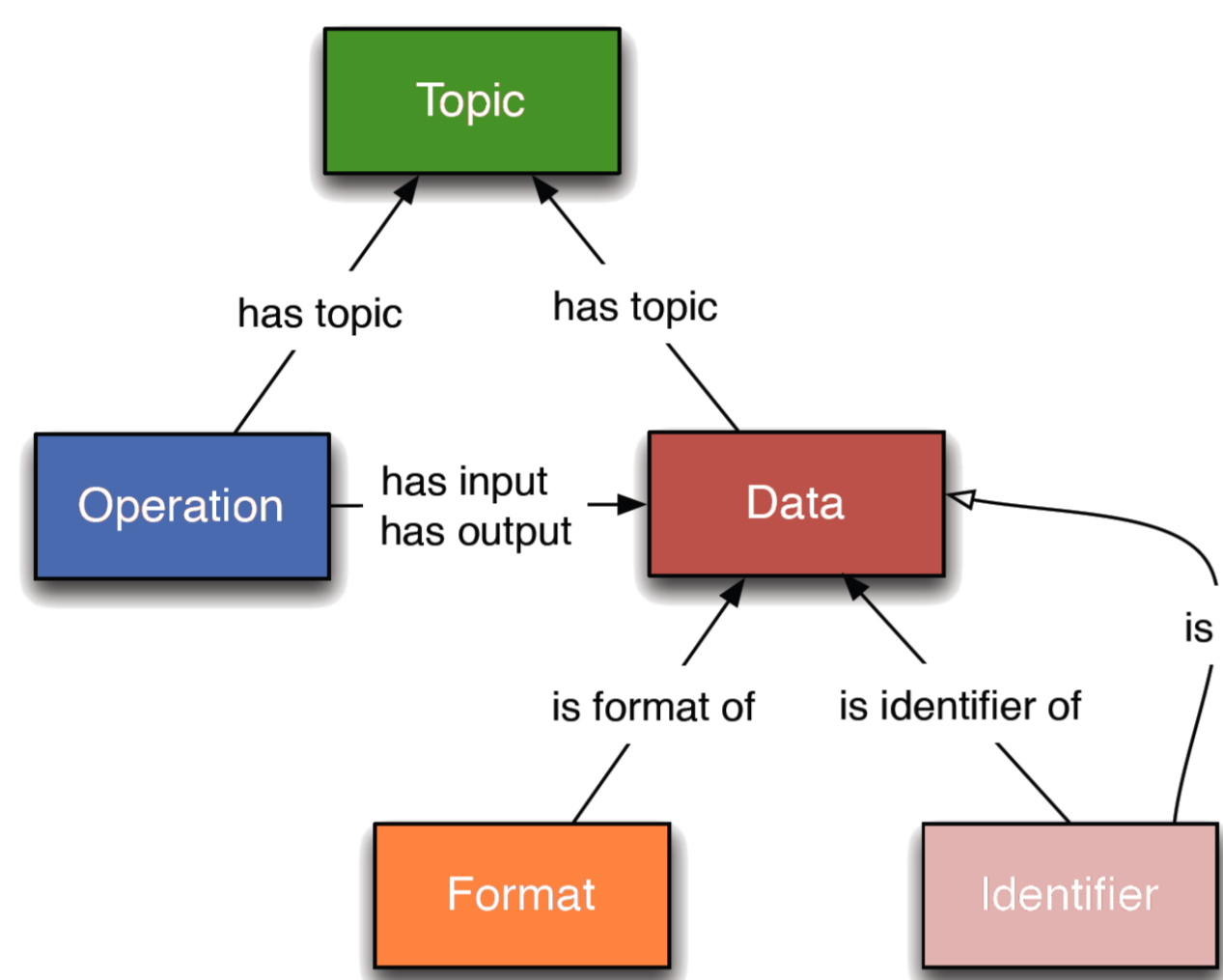
What? EDAM-bioimaging is an extension of the [EDAM ontology](#), dedicated to bioimage analysis, bioimage informatics, and bioimaging.

Why? EDAM-bioimaging enables interoperable descriptions of software, publications, data, workflows, and training, fostering open science.

How? EDAM-bioimaging is developed in a community spirit, in a welcoming collaboration between numerous bioimaging experts and ontology developers.

How can I contribute? We need your expertise! You can help by posting comments with suggestions or needs for clarification, creating GitHub issues or pull requests, or if possible participating in a Taggathon or another hackathon. Please see <https://github.com/edamontology/edam-bioimaging#contributing>.

STRUCTURE OF EDAM



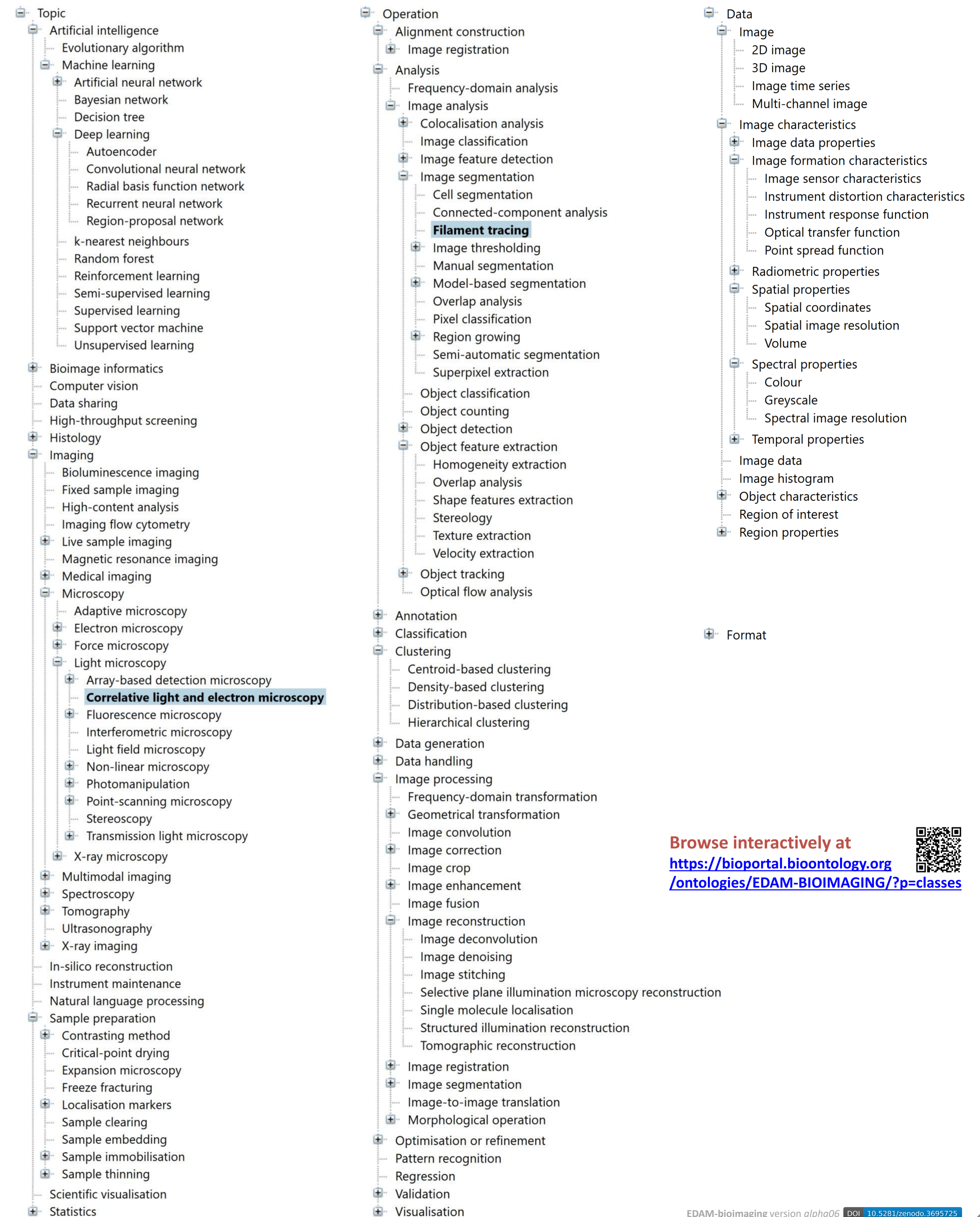
EXAMPLE CONCEPTS

Preferred Name	Correlative light and electron microscopy
Definition	Correlative light and electron microscopy is the combination of light microscopy (typically fluorescence microscopy) and electron microscopy of the same sample.
hasExactSynonym	CLEM
hasNarrowSynonym	Correlative light-electron microscopy
hasNarrowSynonym	Integrated light and electron microscopy (ILEM)
hasNarrowSynonym	Integrated light-electron microscopy
seeAlso	https://en.wikipedia.org/wiki/Correlative_light-electron_microscopy
subClassOf	Light microscopy Electron microscopy Multimodal imaging

Preferred Name	Filament tracing
Definition	Filament tracing operations are image analysis operations in which there is an image of a filamentous structure (it may be a tree-like structure, a filament network or an agglomeration of single 'stick-like' filaments) as input and outputs data that represent the filament, most commonly a skeleton representation of the filaments and their diameters or surfaces.
hasExactSynonym	Tubular structure extraction
hasNarrowSynonym	Biofilament tracing
hasRelatedSynonym	Curvilinear structure reconstruction Curvilinear structure detection
Related term	Neuron reconstruction
seeAlso	Neuron image analysis
subClassOf	Image segmentation

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HIERARCHIES OF EDAM-bioimaging



Browse interactively at <https://bioportal.bioontology.org/ontologies/EDAM-BIOIMAGING/?p=classes>



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EDAM-bioimaging is used in [biii.eu](#), the registry of bioimage analysis tools, workflows, and training materials

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