Towards Big Data in Medical Imaging

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Background

- Unimodal data analysis.
- Monoscale data analysis.
- No data exchange.
- No data enrichment.
- No data reuse.

Patients

Cell Imaging Platform

Department of Radiology

Objectives

Diagnosis improvement

Inter/intra-department medical imaging exchange

Semantic medical imaging enrichment

Medical imaging reuse

Multimodal medical imaging analysis

Linking medical imaging

Multiscale medical imaging analysis

Global data analysis

Scientific Knowledge sharing

RDF-ization of medical imaging

Discover new correlations

IDV Virtual Datacenter

MAGI 2

CUMULUS

S-CAPAD

SPC Cloud and HPC infrastructures: CIRRUS

Health professionals and scientists

NoSQL