## Purpose

find physical biomarkers for Non-mass-like enhancing (NMLE) breast lesions in multiparametric Magnetic Resonance Imaging (MRI) to develop novel Computer Aided Diagnosis (CAD) system

## Scope

to develop advanced image analysis techniques for multiparametric MRI to improve NMLE lesions, disseminate this advances trough open journals and create value through Intellectual Property

## Impact

A novel CAD improving diagnosis of NMLE breast lesions in MRI will reduce medical costs and patient disconfort associated with second look examinations and biopsies

## Success criteria

The project would be considered a success if:

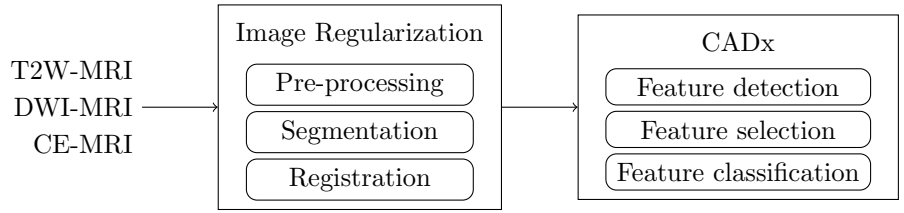
- o a multiparametric MRI evaluation framework for NMLE breast lesions is set
- o potentialy highly citable articles are published
- o physical biomarkers are found
- o a comercializable CAD system is created

## Team

- o Florida State University
- o Computer Vision and ROBotics
- o Centre Diagnóstic - Institud Universitary Parc Taulí - UAB
- o Joan Massich

## Resources

- o dataset of 400 patients
- o oitt
- o great advisors
- o clinical validation
- o creative candidate
- o i2cvb




**Evaluation Benchmark** — Milestones: mst — Deliberable: zz

Cover the lack of standerized platform for testing breast lesions diagnosis when using multiparametric MRI.

Actions:

- o Publishable dataset
- o Evaluation metric
- o MICCAI Challenge

Risks and Alternatives:

If the challenge is canceled, a local challenge will be organized at MaIA

impact:

- o Benchmark for our CAD
- o Scientific publication likely to be highly cited

**Title** — Milestones: mi.st — Deliberable: delib.

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Actions:

Actions for this block

Risks and Alternatives:

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impact:

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