

Protocol I

'Naive' CNN
Model Architecture

Training

RUST Data
~2000
radiographs

Yields

"Naive" CNN
Trained directly on
RUST Dataset

Protocol II

InceptionV3
Model Architecture

Pre-Training

ImageNet
~14.0 million
images

Yields

InceptionV3
Trained on
ImageNet

Transfer Learning

RUST Data
~2000
radiographs

Yields

InceptionV3
Transfer-learning to
RUST data

Protocol III

InceptionV3
Model Architecture

Pre-Training

RadImageNet
~5.0 million
radiographs

Yields

InceptionV3
Trained on
RadImageNet

Transfer Learning

RUST Data
~2000
radiographs

Yields

InceptionV3
Transfer-learning to
RUST Data