



QR Dataset



Code

A Public Dataset for Tooth Segmentation in Multi-View Intraoral Photographs **IOP-Compass**

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PROBLEM

Public datasets rarely combine:

- standardized five views
- expert tooth-instance masks
- FDI tooth labels

1,000 5,000

patients

images

5 standardized views

METHOD



Input photograph



1

CLASSIFICATION

ResNet18

Center, Left, Right,
Upper and Lower



2

TOOTH SEGMENTATION

SAT

32 FDI tooth classes
+ instance masks



An expert verifies the final masks.

OUTPUT

FDI-labelled tooth masks

Fixed post-processing removes small artifacts and duplicate labels.

99.87%

View-classification
accuracy

95.09%

Best average F1: SAT
without ROI

SAM 3 takeaway

Slightly better frontal/center and left/right

Lower upper and lower occlusal views

Overall F1 **95.09 → 94.56**

Full-image SAT remains the best overall
configuration

SAM 3 ROI: PER-VIEW EFFECT

	No ROI		SAM 3	Change
Frontal / center	94.27	→	94.48	+0.21
Left / right	93.31	→	93.81	+0.50
Upper	98.33	→	96.10	-2.23
Lower	98.16	→	95.16	-3.00