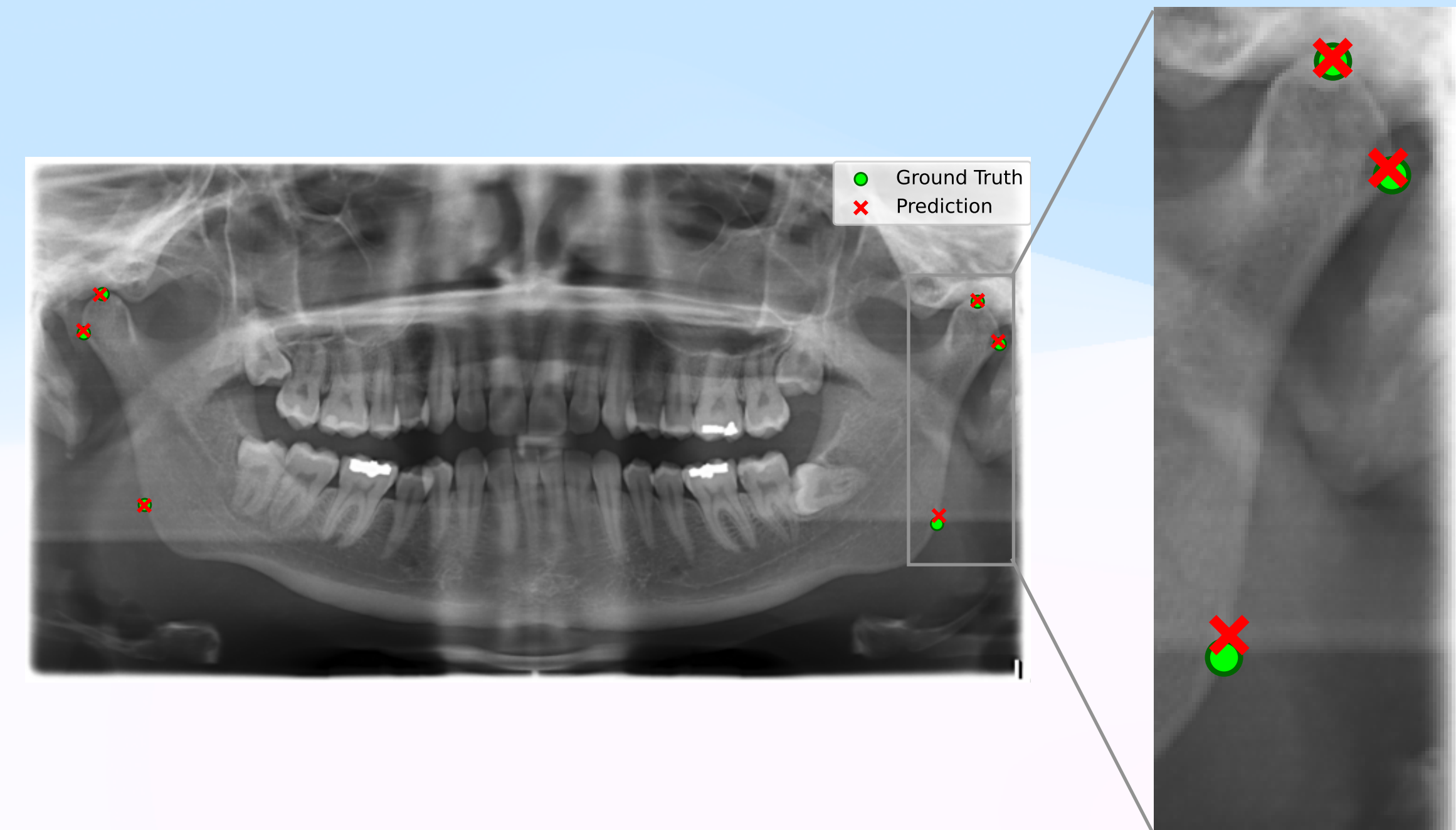


Poster 04: AI-Based Landmark Detection for Condylar Asymmetry Assessment in Patients with Juvenile Idiopathic Arthritis

Michele Signori, Mattia Savardi, Martina Cattadori, Ingrid Tonni, Alberto Signoroni

- Juvenile Idiopathic Arthritis (JIA) can lead to **condylar alterations** and **facial deformities**, therefore **early diagnosis** is crucial to limit disease-related damage.
- Evaluation of **condylar asymmetry** through the identification of **anatomical landmarks** becomes an important tool, but **manual annotation** is time-consuming and operator-dependent.
- We propose a pipeline for **automatic identification of anatomical landmarks** in OPG images for both **healthy** and **JIA-affected patients**.



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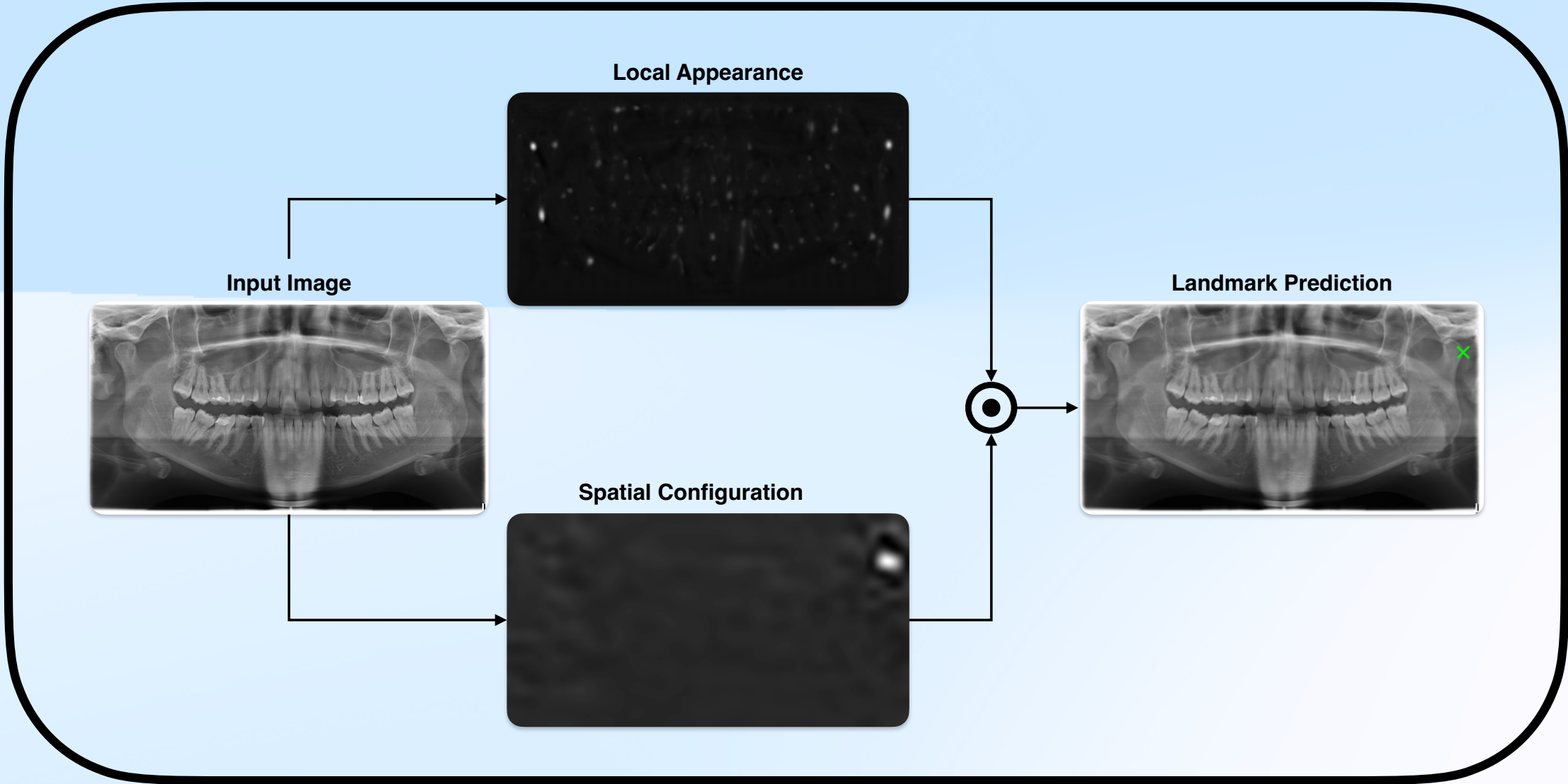


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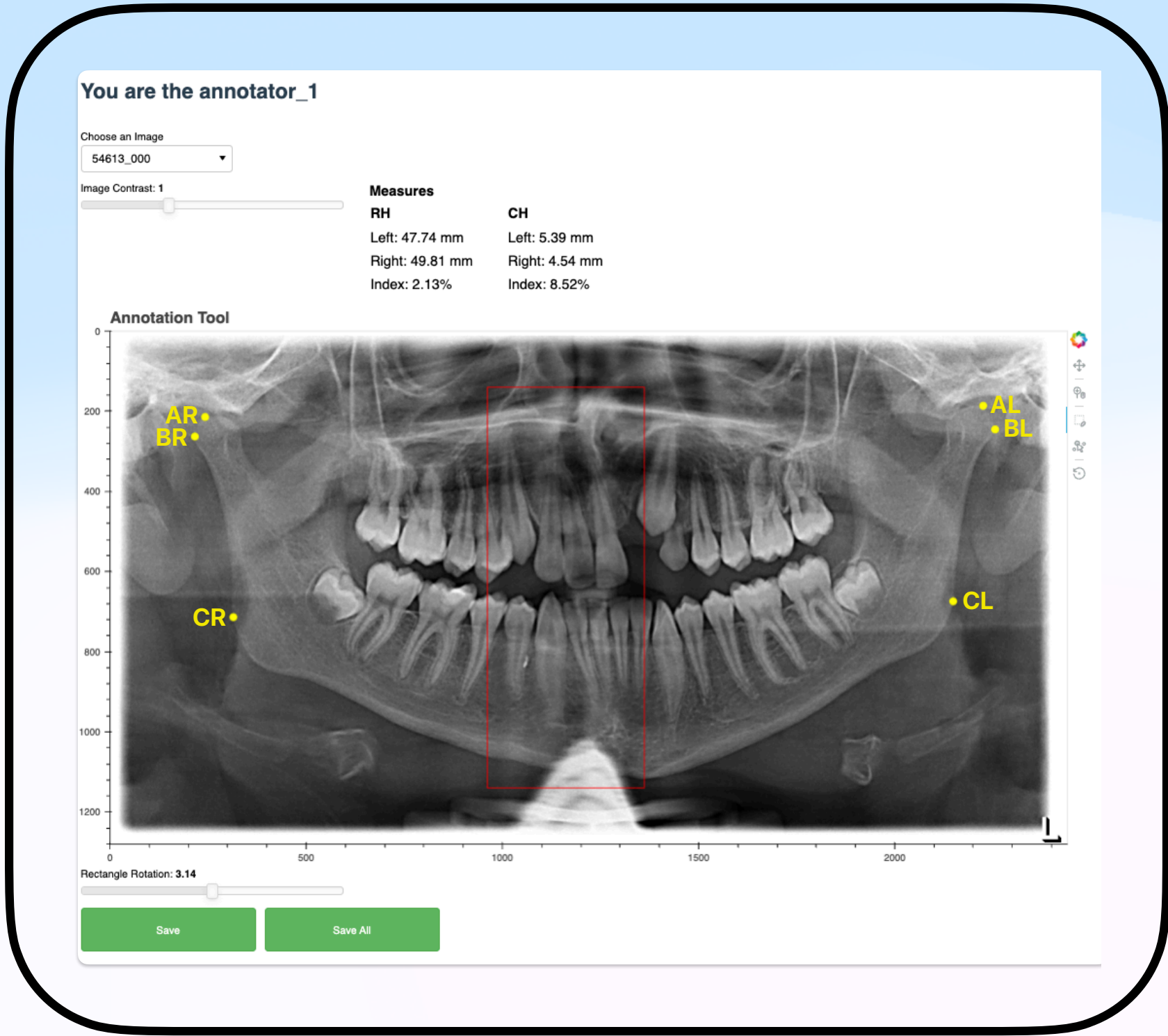
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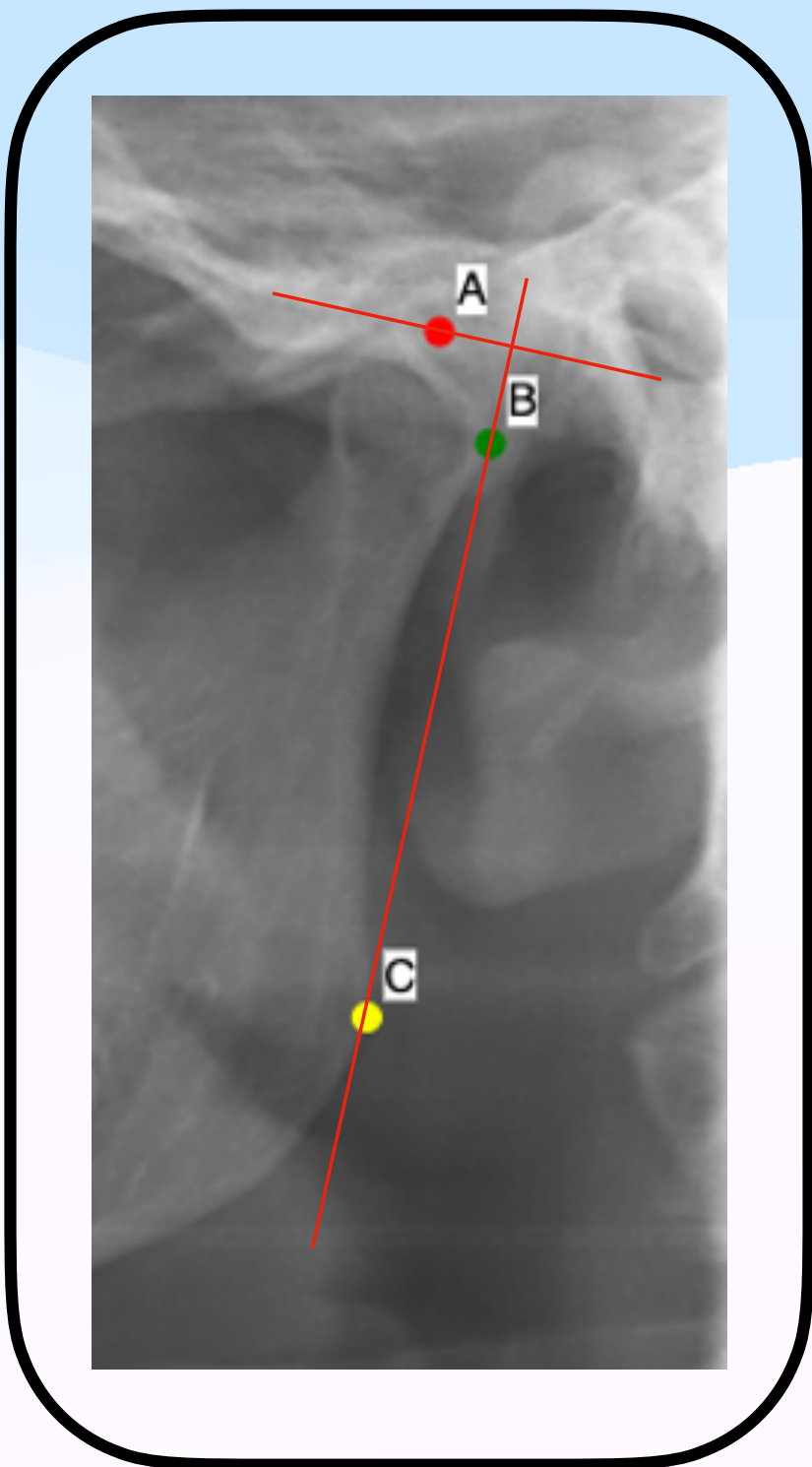
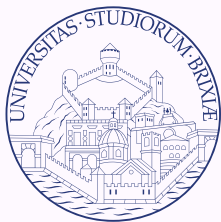
1. Deep Learning Model for Automatic Landmark Annotation



2. Web-based Annotation Tool



3. Evaluation of Condylar Asymmetry Indices



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