

Image Recognition for Dental Instruments

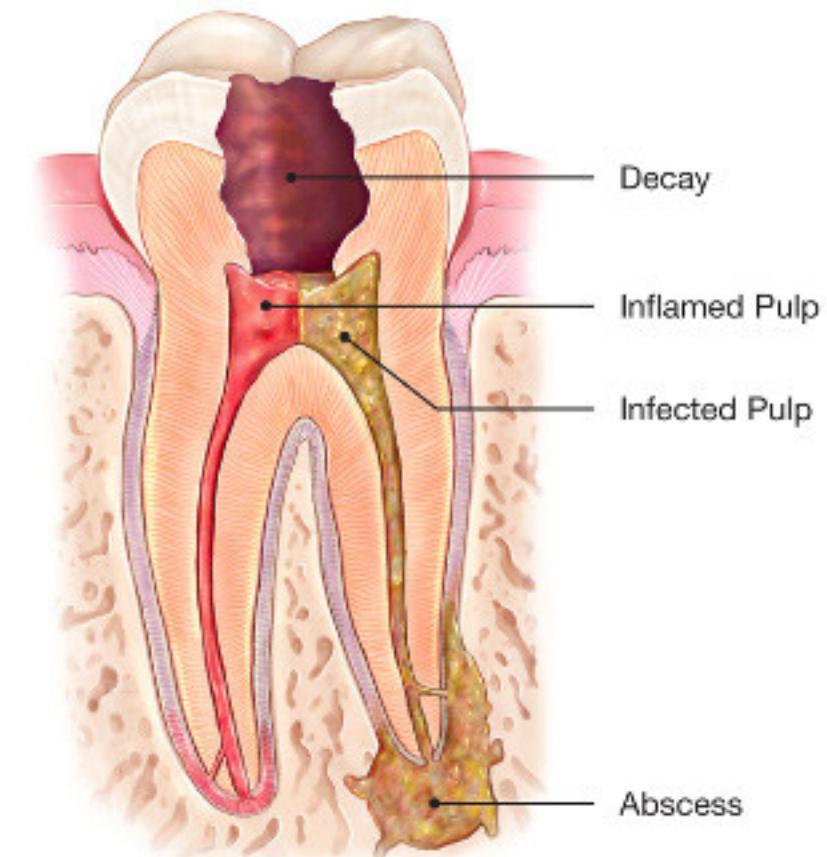
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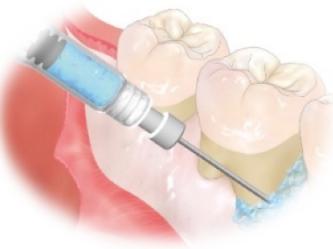
Self-Introduction

- Graduate school student of dentistry(D2)
- Clinical department of endodontic therapy



Social Smart Dental Hospital (S2DH)

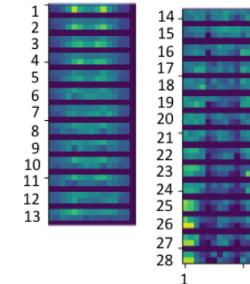
- Oral Health Care Edge Computing
 - Function & Subproject:
 1. Periodontal disease risk assessment (PD-RA)
 2. Oral mucosa disease risk assessment (OMD-RA)
 3. Tooth Loss Simulation (TL-S)
 4. Automatic Personal Health Recording (A-PHR)



PD-RA



OMD-RA



TL-S



A-PHR

Social Smart Dental Hospital (S2DH)

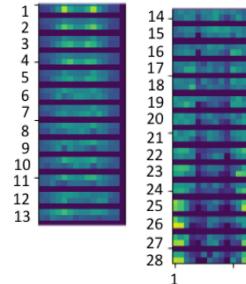
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PD-RA



OMD-RA



TL-S



A-PHR

Automatic Personal Health Recording

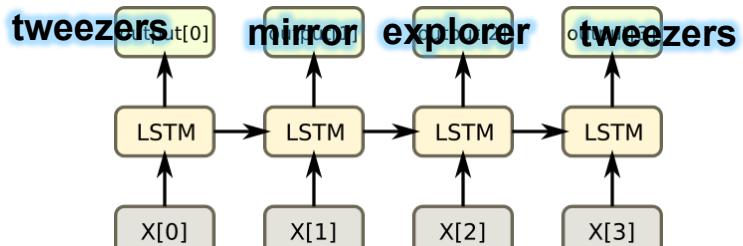


Inspiration



Automatic doughnut checkout

Estimates and records the contents of treatment automatically



Preventing accidents in the future expected

Dental Instruments recognition

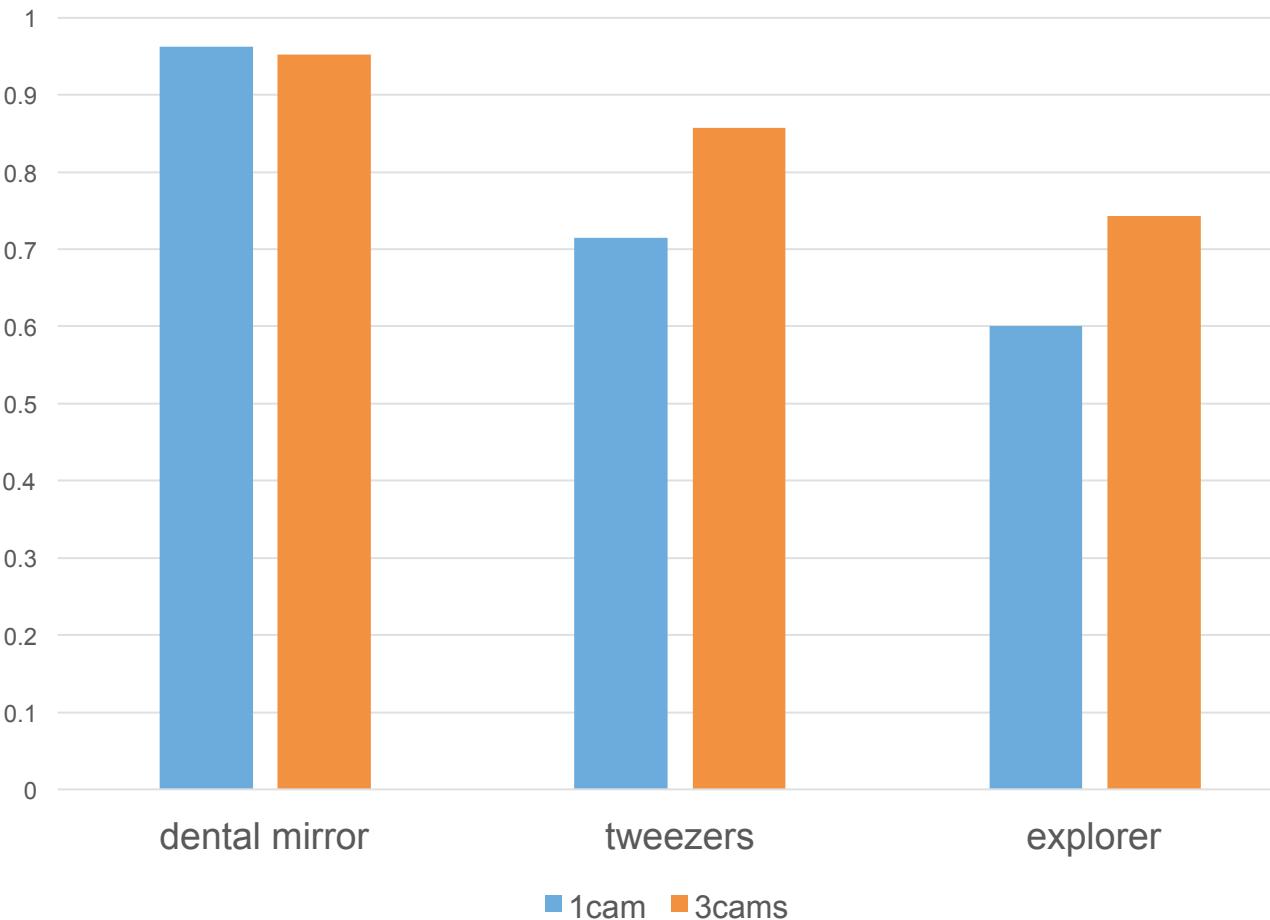
- Many kinds of dental instruments
 - >30
- Selected 3 instruments
 - Dental mirror
 - Tweezers
 - Explorer



Now let's take a look at the DEMO

Why 3 Cams?

Accuracy



Future Prospects

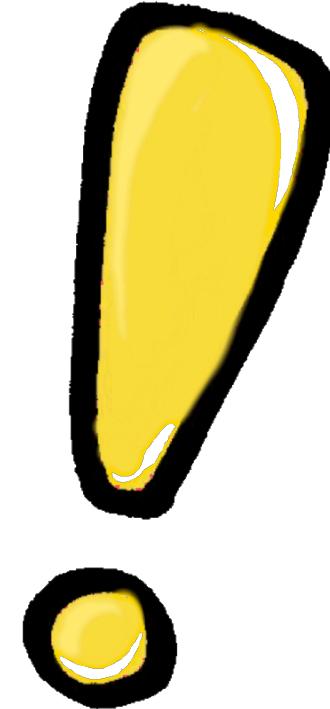


Treatment recognition

Automatic dental record



Incident prevention



Identification of high risk situation