

TOOTH FAIRY CHALLENGE

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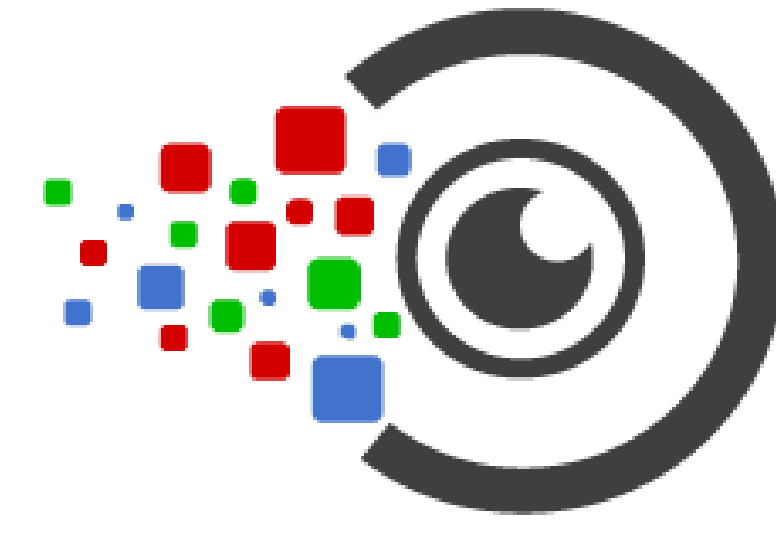
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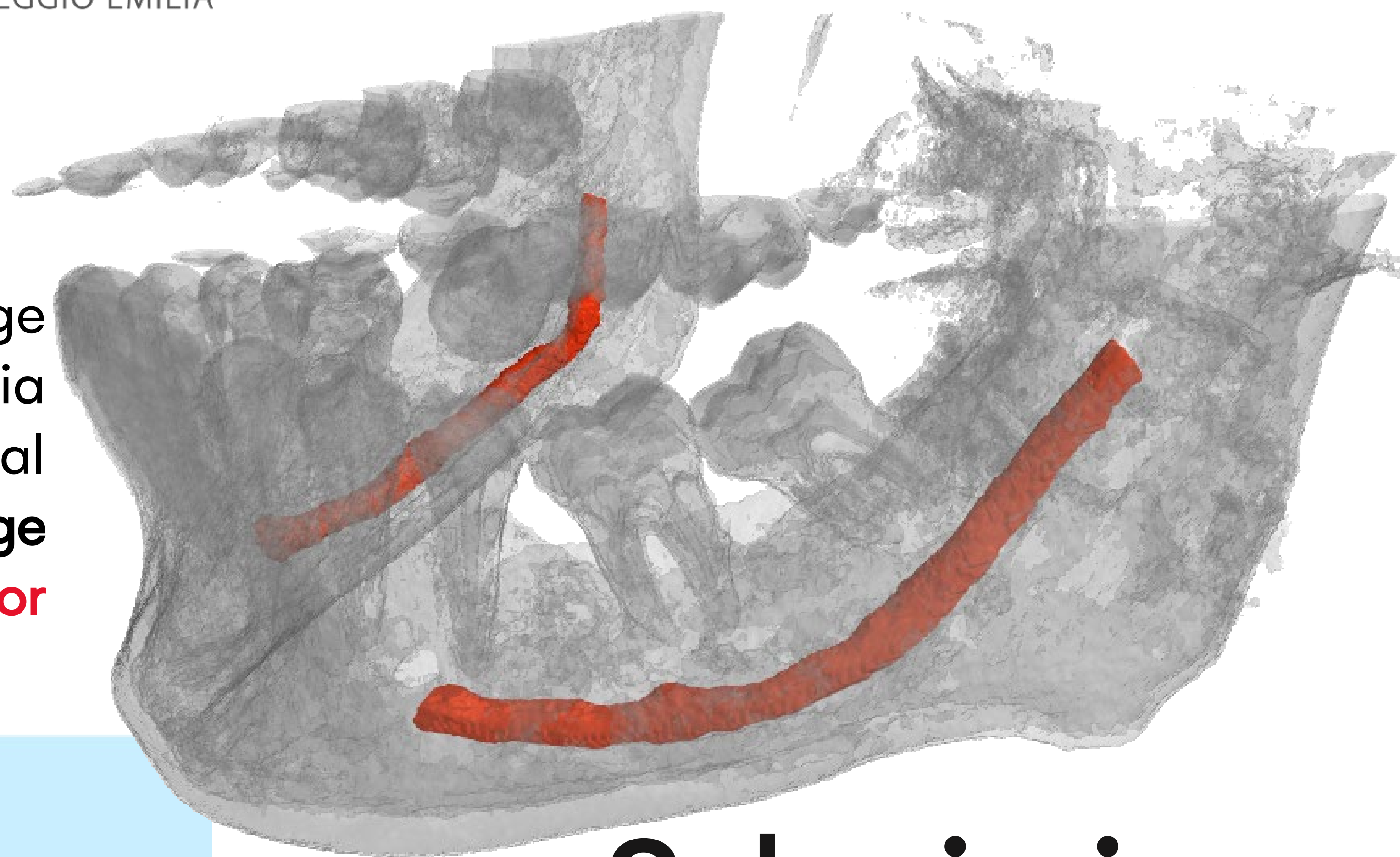
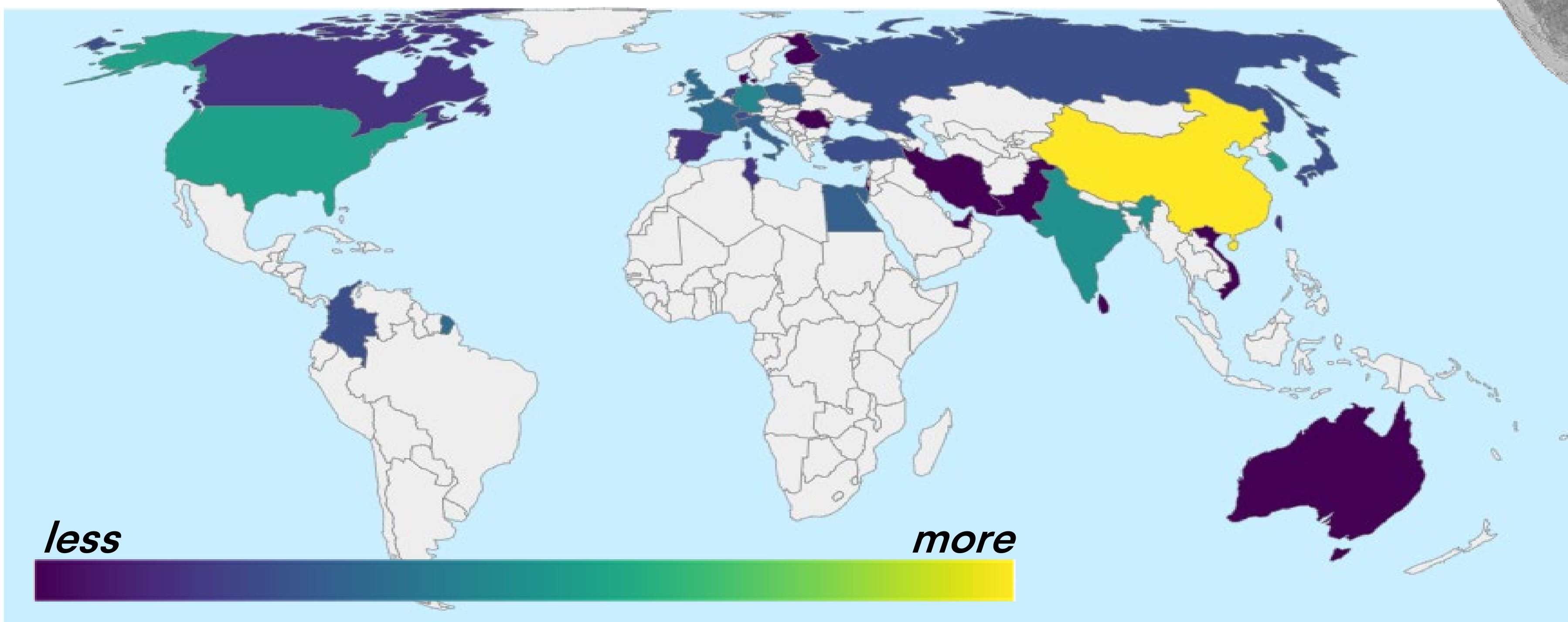
Almage Lab



Radboud
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About the Challenge

This is the first edition of the ToothFairy challenge organized by the University of Modena and Reggio Emilia with the collaboration of Radboud University Medical Center. The challenge is hosted by the **Grand-Challenge** platform and concerns the **segmentation of the Inferior Alveolar Canal (IAC)**.



Submissions

Preliminary Phase: 188 (19 unique groups)

Final Test Phase: 30 (17 unique groups)

Post Challenge Phase: 10 (3 unique groups)

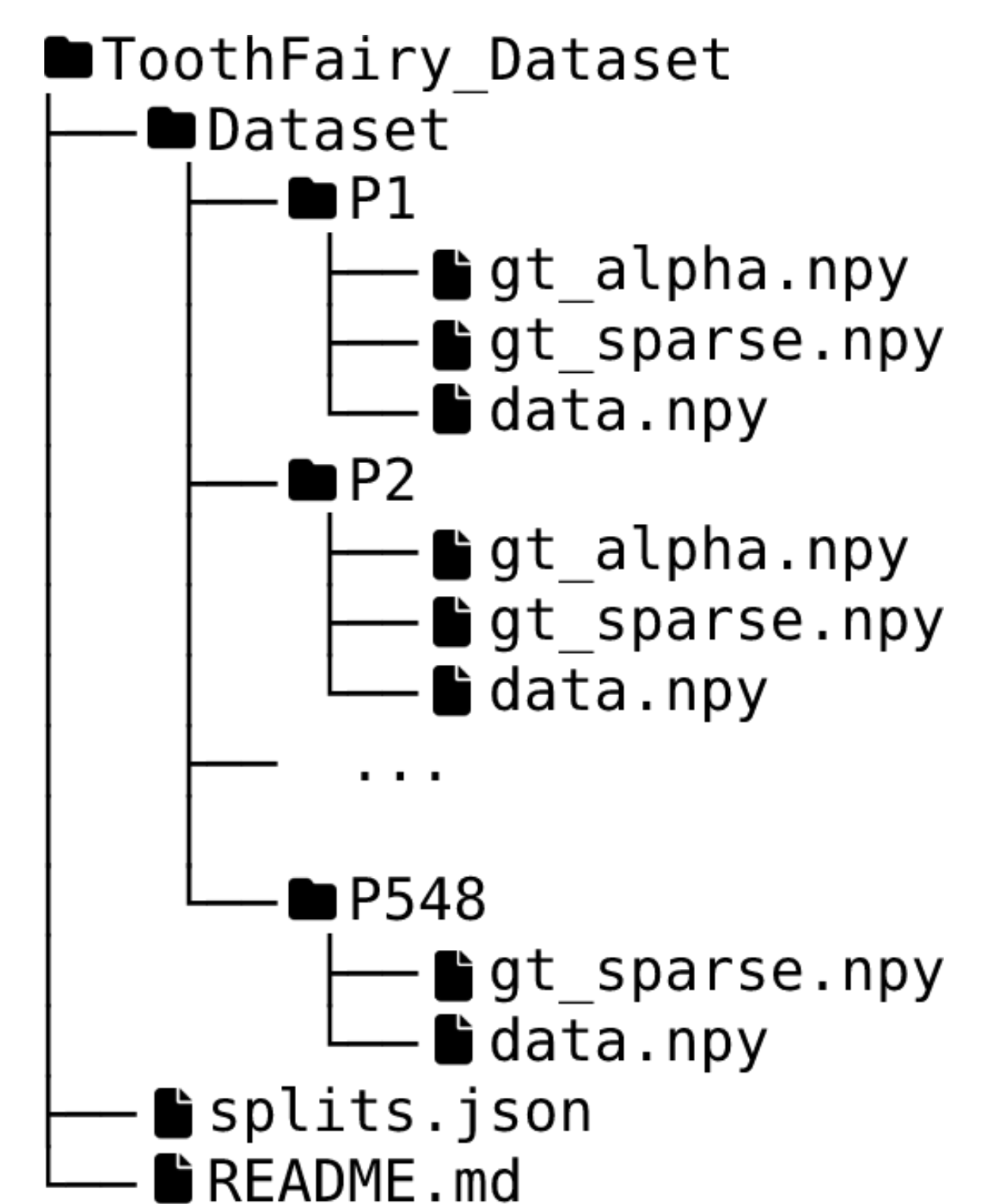
**Post Challenge Submissions
are Still Open!**

The ToothFairy Dataset



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The dataset comprises **443 volumes**, 153 with both **dense and sparse** labels and 290 with **only sparse** annotations. 50 private additional **test volumes** have been annotated by providing a dense label. GT labels have been accurately produced by a team of 5 maxillofacial experts. Data are provided as *numpy* arrays.



Ranking Schema and Prizes

The ranking schema involves:

1. Calculating the **Dice** score and the average **HD95** (average on all volumes);
2. Ranking the two metrics **independently**;
3. Averaging the rankings obtained at point 2 to produce the final rank.

The winners of the challenge are:

- 🥇 1000€ Haoshen Wang, Chenfan Xu, and Zhiming Cui (China)
- 🥈 1500€ Yusheng Liu, Rui Xin, Tao Yang, and Lisheng Wang (China)
- 🥉 500€ Marek Wodzinski and Henning Müller (Switzerland)

Dice ↑	HD95 ↓
0.796	4.49
0.769	7.45
0.761	9.22



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ToothFairy Challenge 2 is *Cooming Soon!*

We are working hard to make it possible!