UNIMORE
UNIVERSITÀ DEGLI STUDI DI MODENA E REGGIO EMILIA

AImage Lab

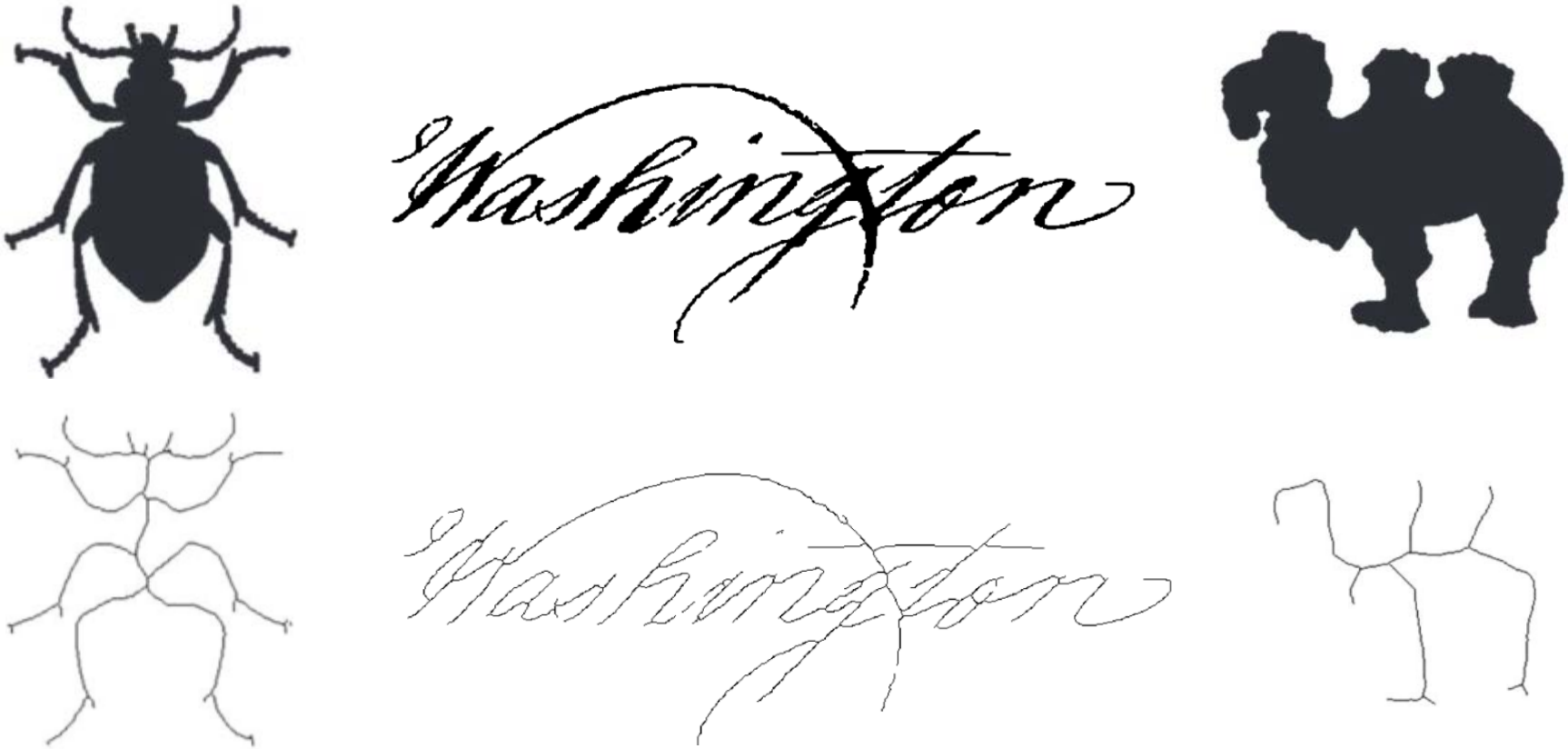
Improving the Performance of Thinning Algorithms with Directed Rooted Acyclic Graphs

Federico Bolelli and Costantino Grana

Università degli Studi di Modena e Reggio Emilia, DIEF, *Italy*

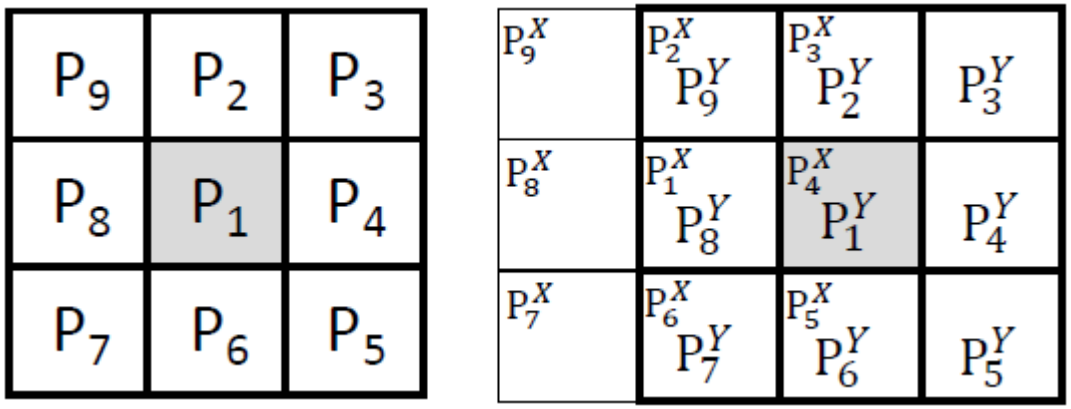
Improving Thinning Algorithms with DRAG

- Thinning provides an approximate representation of the objects inside images.



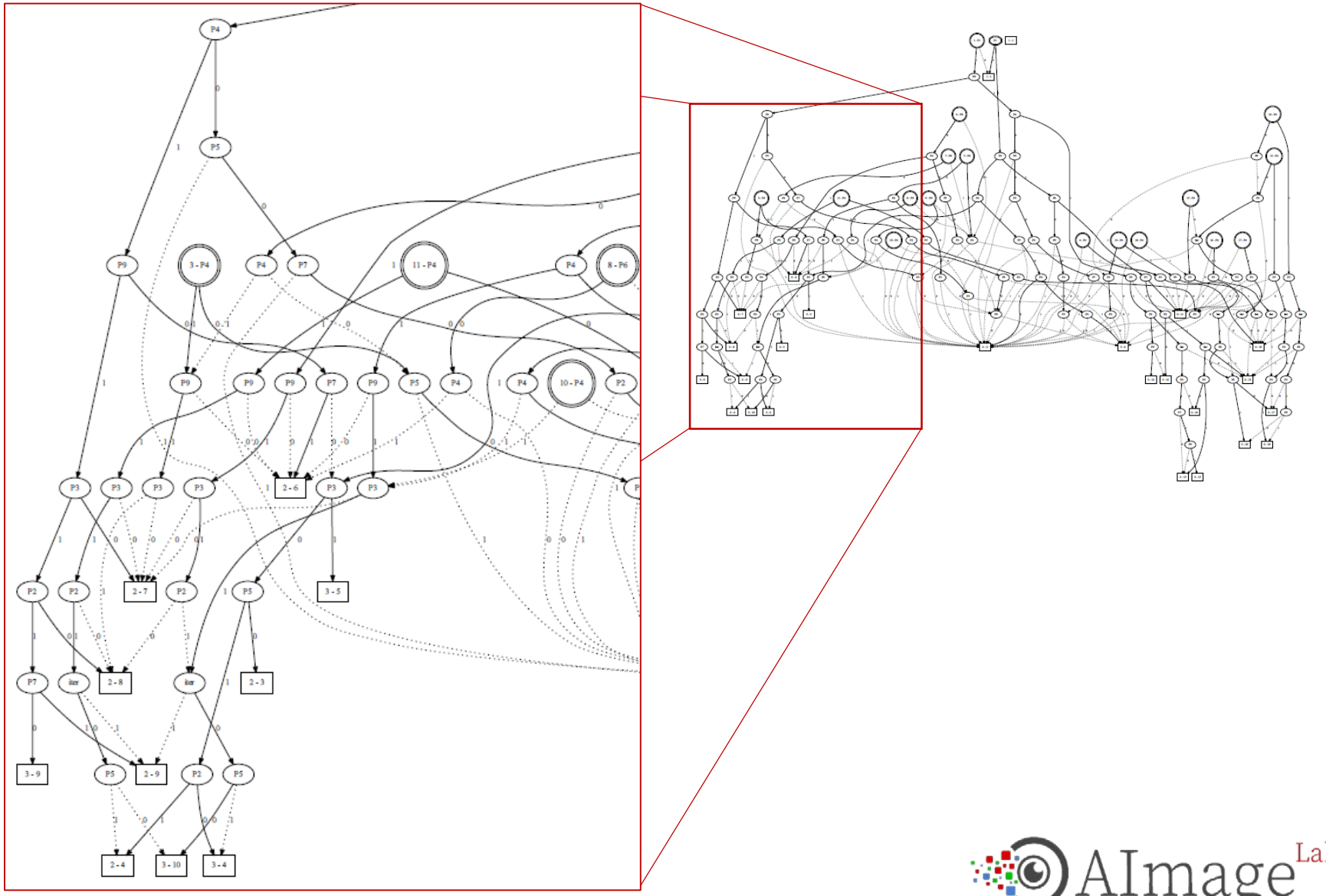
Improving Thinning Algorithms with DRAG

- A lot of approaches have been proposed to improve performances:
  - Look-Up Tables (LUT);
  - Efficient neighborhood exploration based on Decision Trees;
- What is missing?



AImage Lab

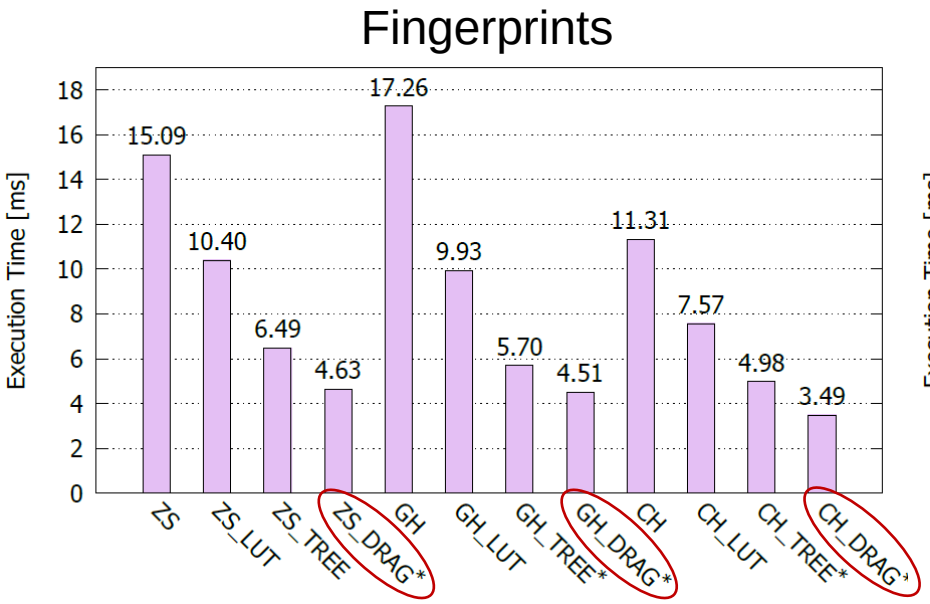
Improving Thinning Algorithms with DRAG

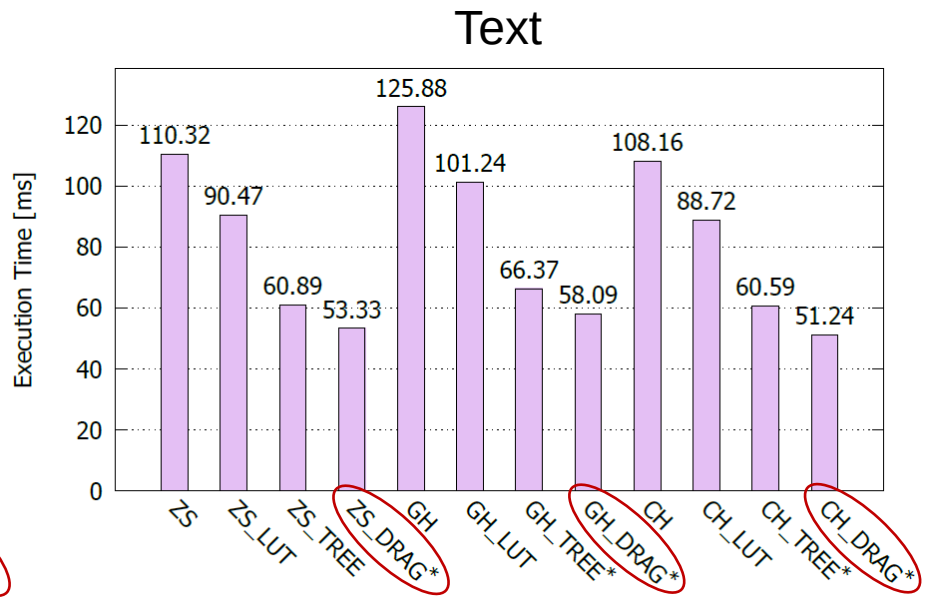


AImage Lab

Improving Thinning Algorithms with DRAG

- We applied this strategy to three different state-of-the-art thinning algorithms and evaluated their performance with the open source C++ benchmarking system THeBE (github/prittt/thebe).





AImage Lab