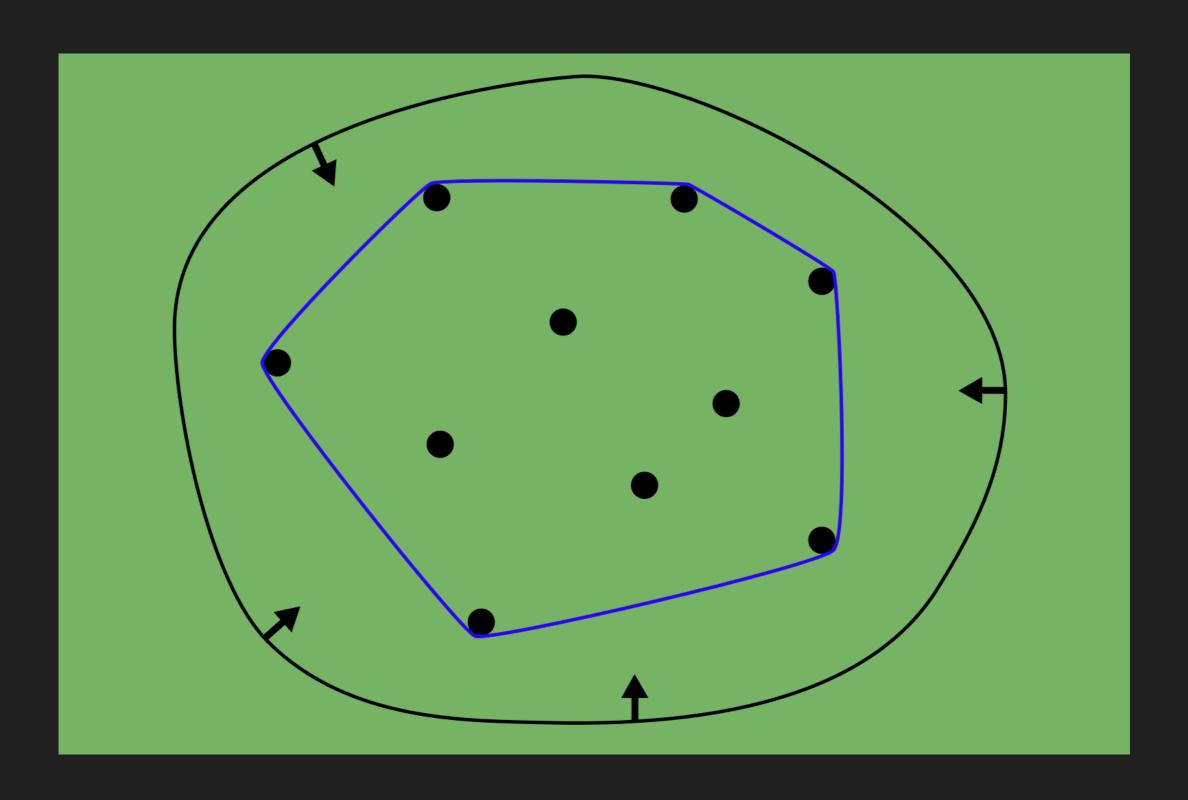
# PARALLEL ALGORITHMS FOR FINDING CONVEX HULLS IN 2D

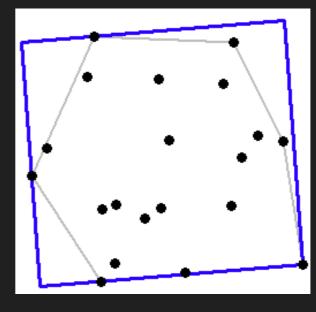
## DEFINITION



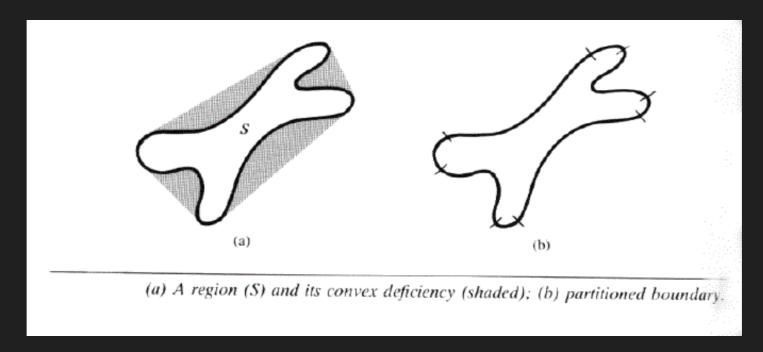
## APPLICATIONS



**COLLISION AVOIDANCE** 



**SMALLEST BOX** 



**SHAPE ANALYSIS** 

#### PLAN OVERVIEW

12.10 Deciding on topic

18.12

- 16.11 Finishing at least 1 algorithm
- 26.11 Finishing a 2nd algorithm
- 03.12 Finishing a 3rd algorithm

Improving implementations, measurements, adding new features

### PLAN DETAILS

#### 16.11 Chan's algorithm\*

- Implementing sequential version
- Implementing parallel version
- Implementing variations of the algorithm
- Running implementation on Euler
- Designing benchmarks
- 26.11 Quickhull
- **03.12** Secret;)

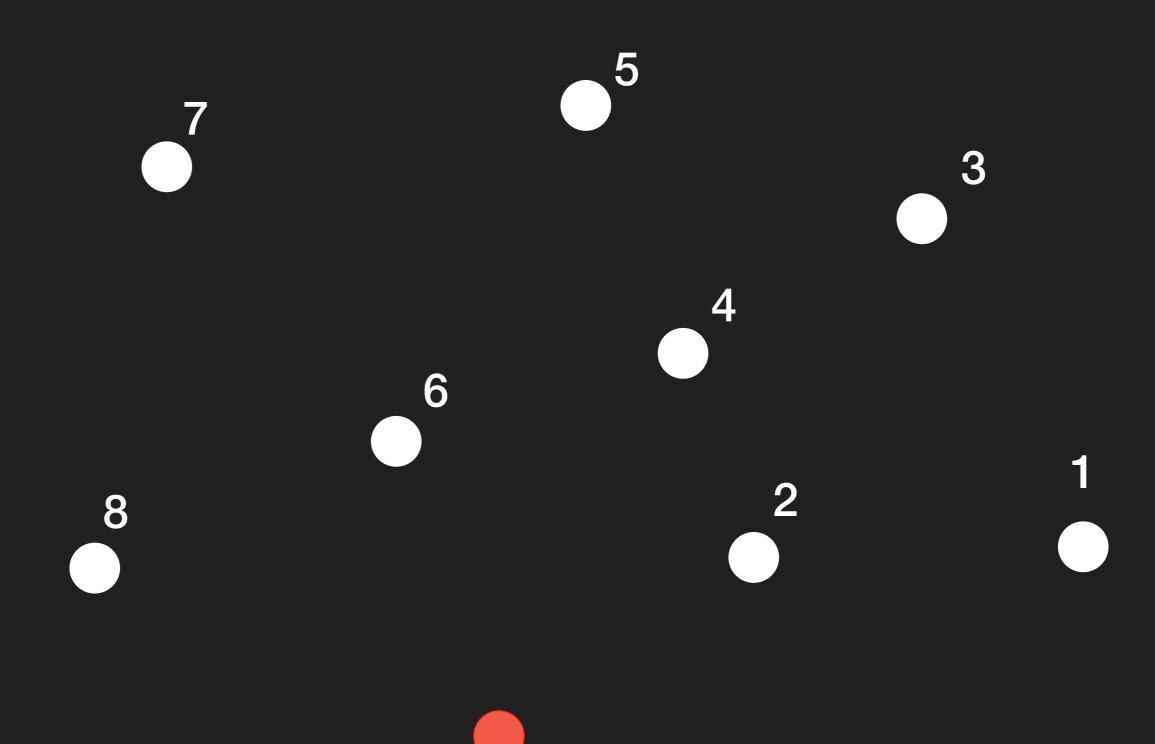
#### PLAN DETAILS

#### 16.11 Chan's algorithm

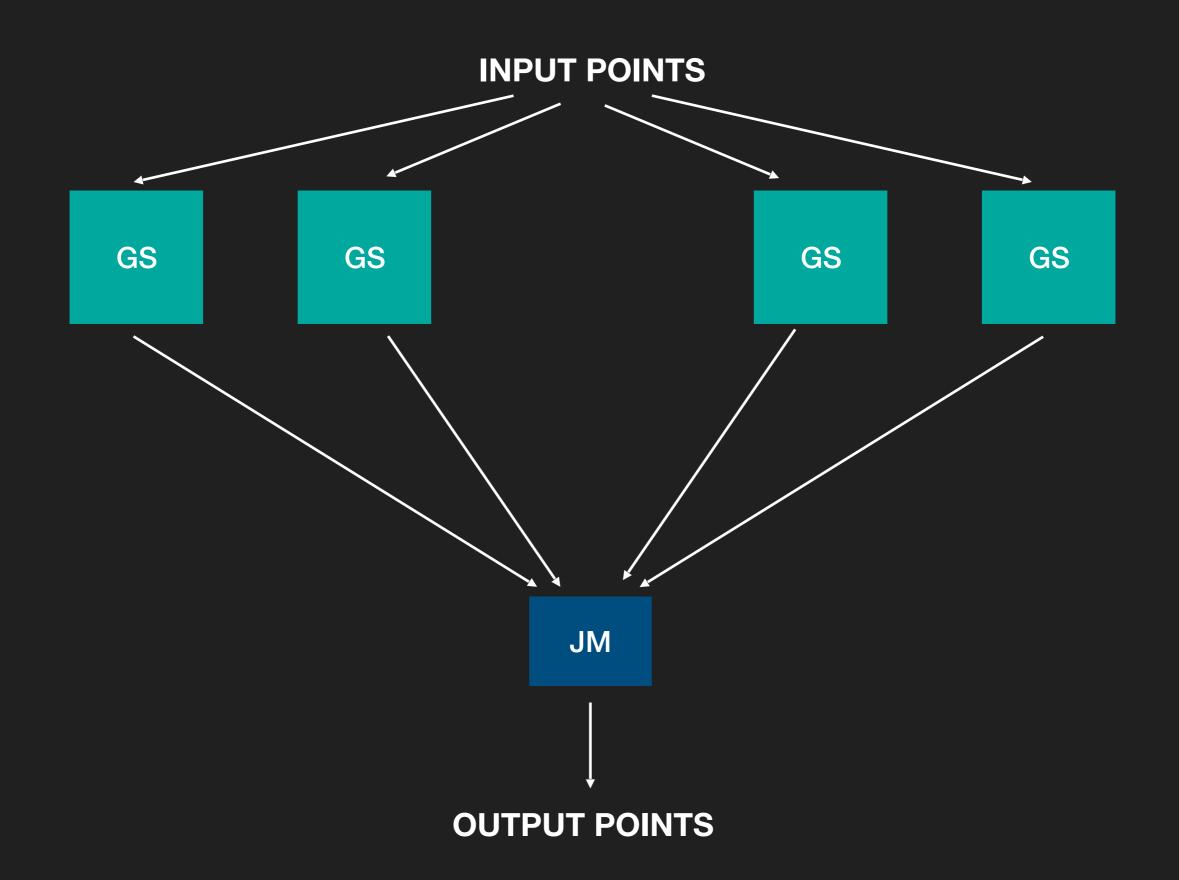
- Implementing sequential version
- Implementing parallel version
- Implementing variations of the algorithm
- Running implementation on Euler
- Designing benchmarks
- 26.11 Quickhull
- **03.12** Secret;)

### JARVIS MARCH

## GRAHAM SCAN



### CHAN'S ALGORITHM



# DEMO

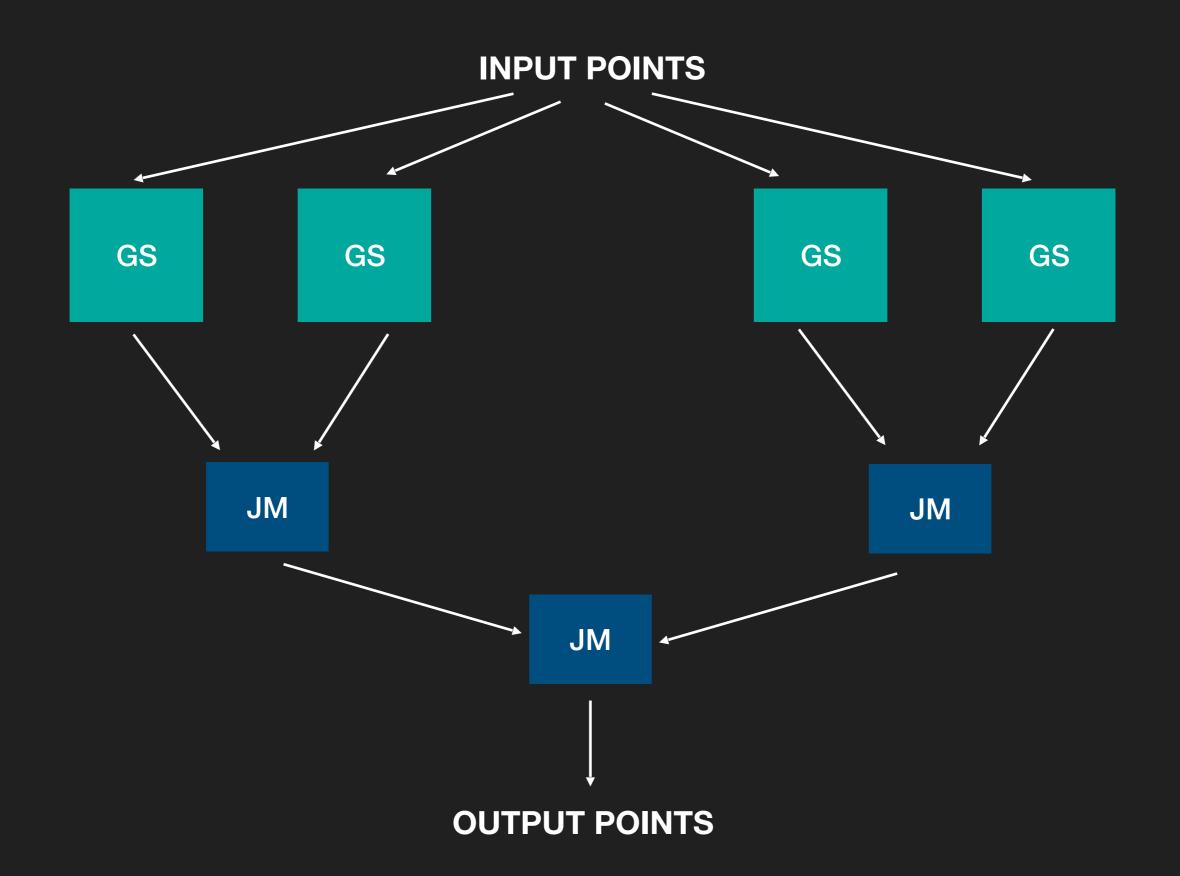
### PLAN DETAILS

#### 16.11 Chan's algorithm

- Implementing sequential version
- Implementing parallel version
- Implementing variations of the algorithm
- Running implementation on Euler
- Designing benchmarks

```
26.11 Ouiskhull . Variations 03.12 Secret;)
```

## CHAN'S ALGORITHM



# QUESTIONS