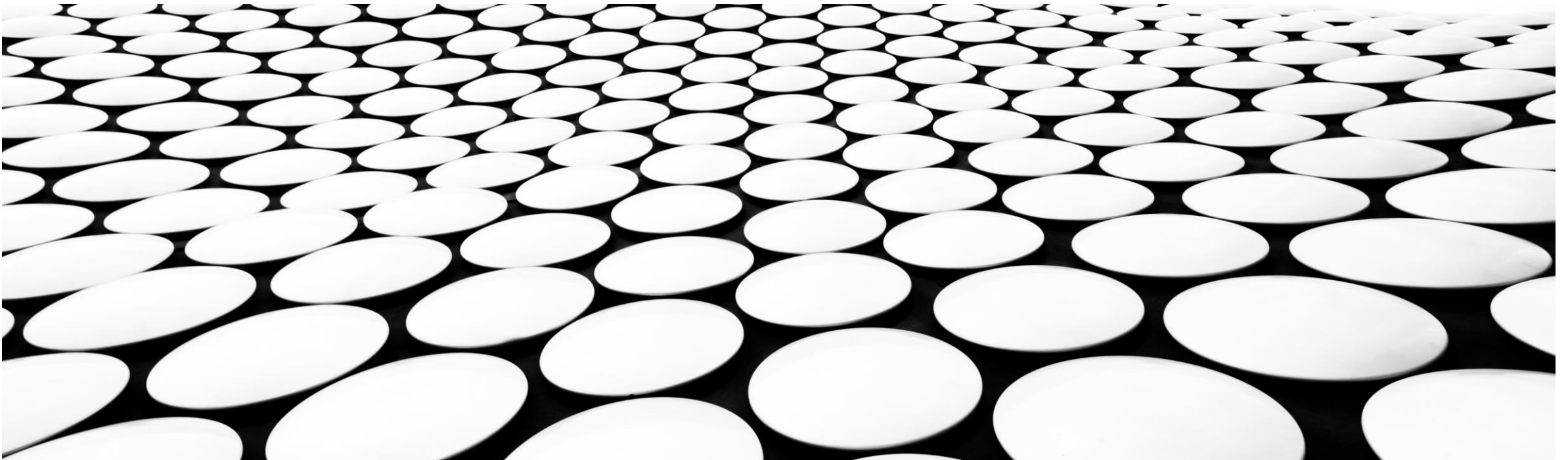


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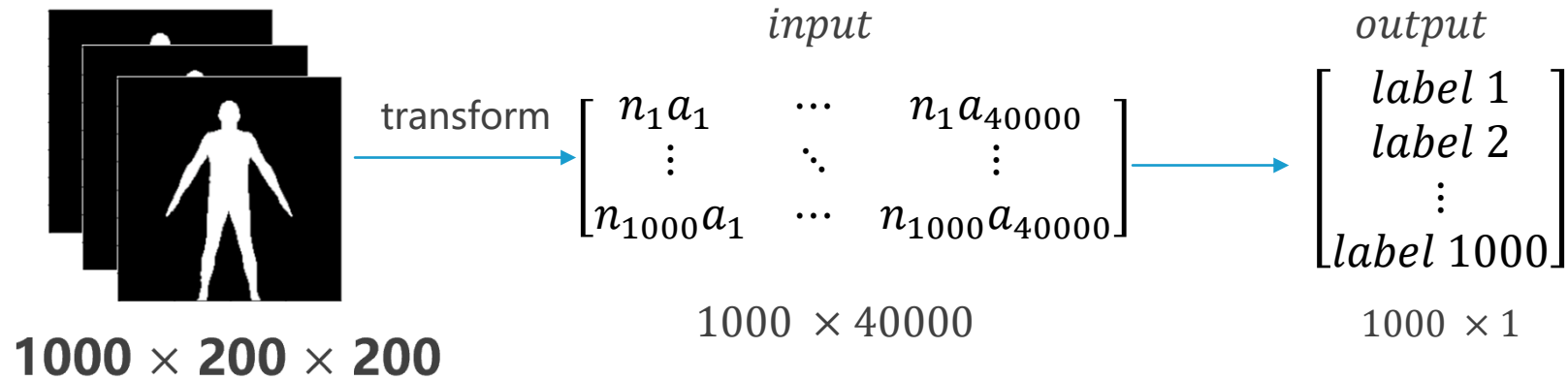
# APPLIED COMPUTATIONAL INTELLIGENCE

HE XIANTAO 1155132173



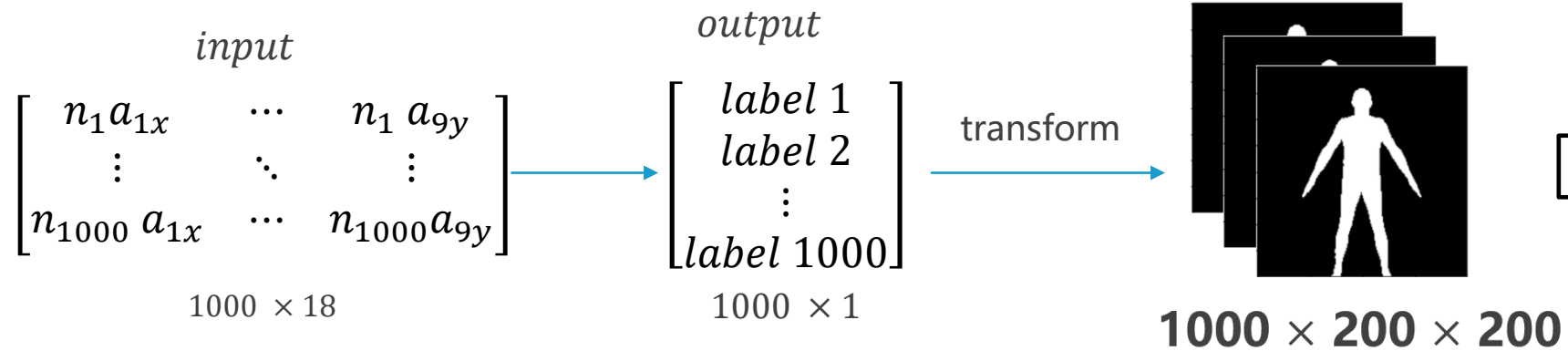
# TASK1 & TASK 2

## TASK 1



Run 18 times

## TASK 2



Run 40000 times

# TASK1 & TASK 2

## TASK 1

Training model

Decision Tree  
regressor

Advantages: less running time , good accuracy in image, no need to do preprocess

Disadvantages: lowest accuracy in cross-validation among all models

Support Vector  
Machine Regressor

Advantages: good accuracy in cross-validation and images

Disadvantages: more running time, must do preprocess

Linear Regression

Advantages: less running time, good accuracy both in images and cross-validation, no need to do preprocess, **powerful in high-dimension dataset**

## TASK 2

Training model

Logistic Regression

Disadvantages: **must do preprocess**, may not be convergence during iteration process, **must be divided into at least two labels**

Decision Tree  
Classifier

Advantages: no preprocess, no need to be divided into two labels, good accuracy

Disadvantages: accuracy may not be good in cross-validation