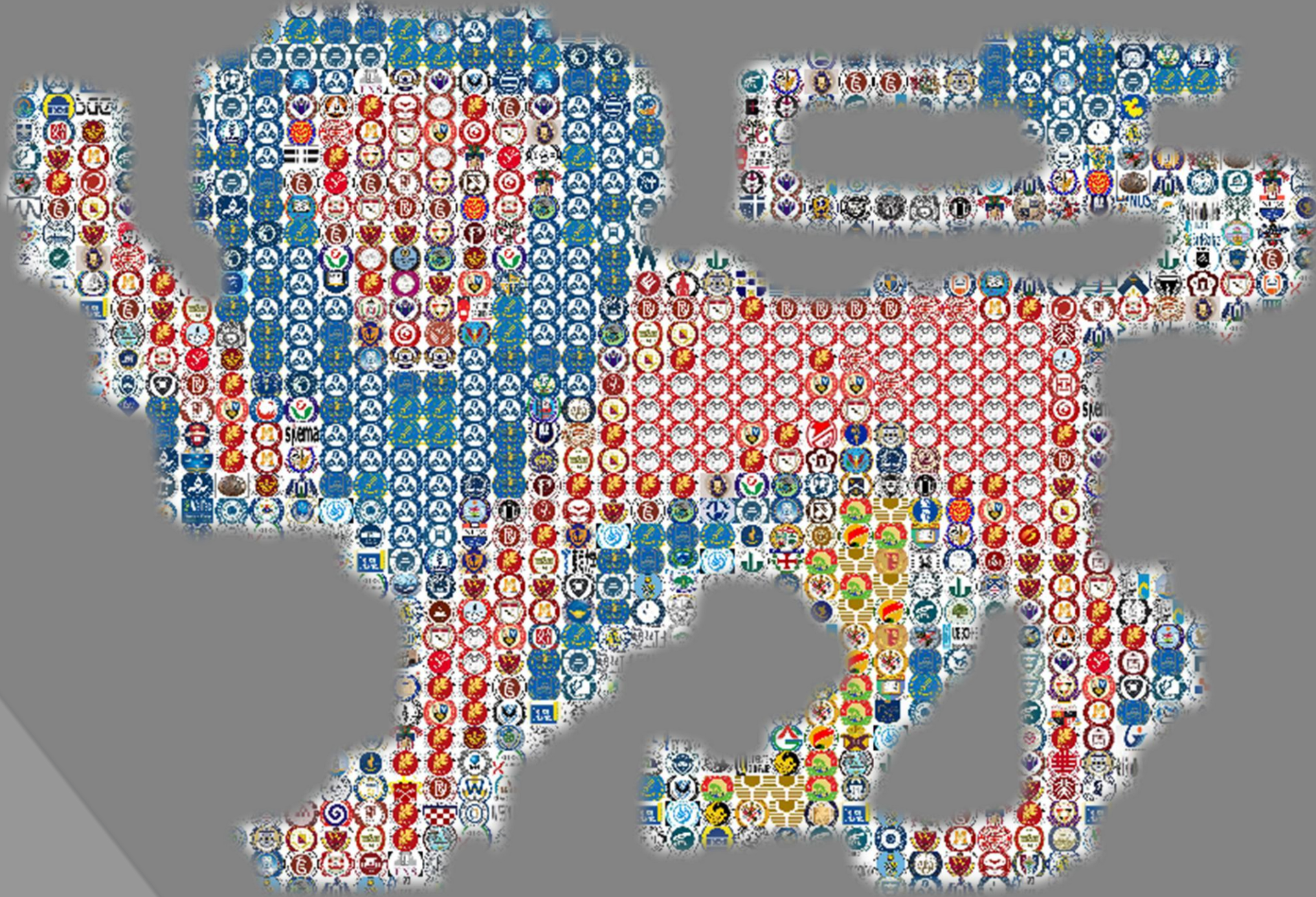# FIND YOUR TWIN-UNIVERSITY

INTRODUCTON

TOPIC: CD for university badges
OBJECT:
MOTIVATION: many badges look alike
PURPOSE: analysis the similarity and dissimilarity of university badges over different countries and within each country
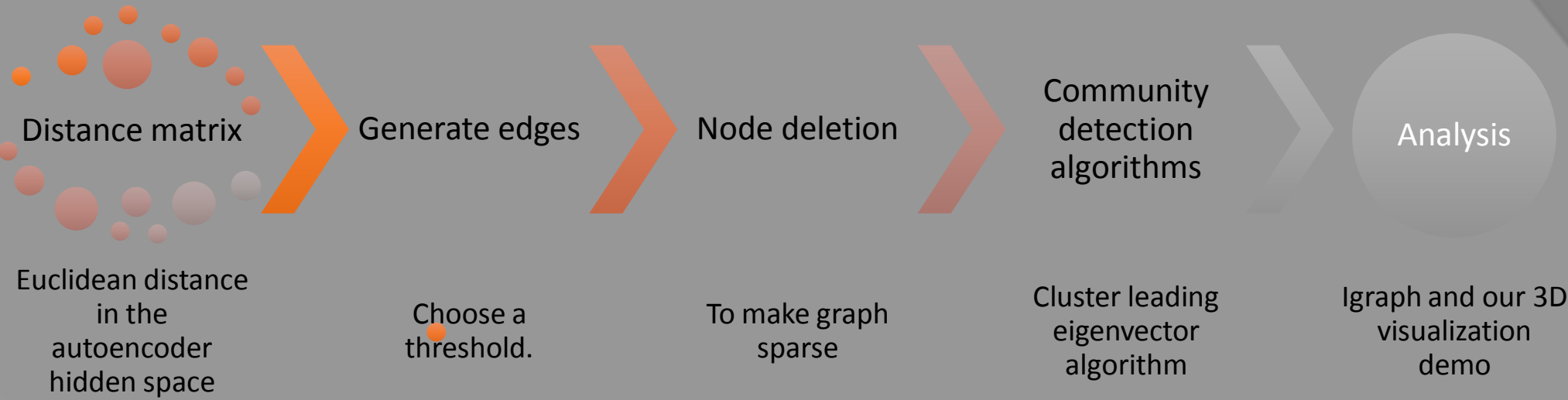
DATASET & METHOD

DATASET
4000+ badges from 12 countries
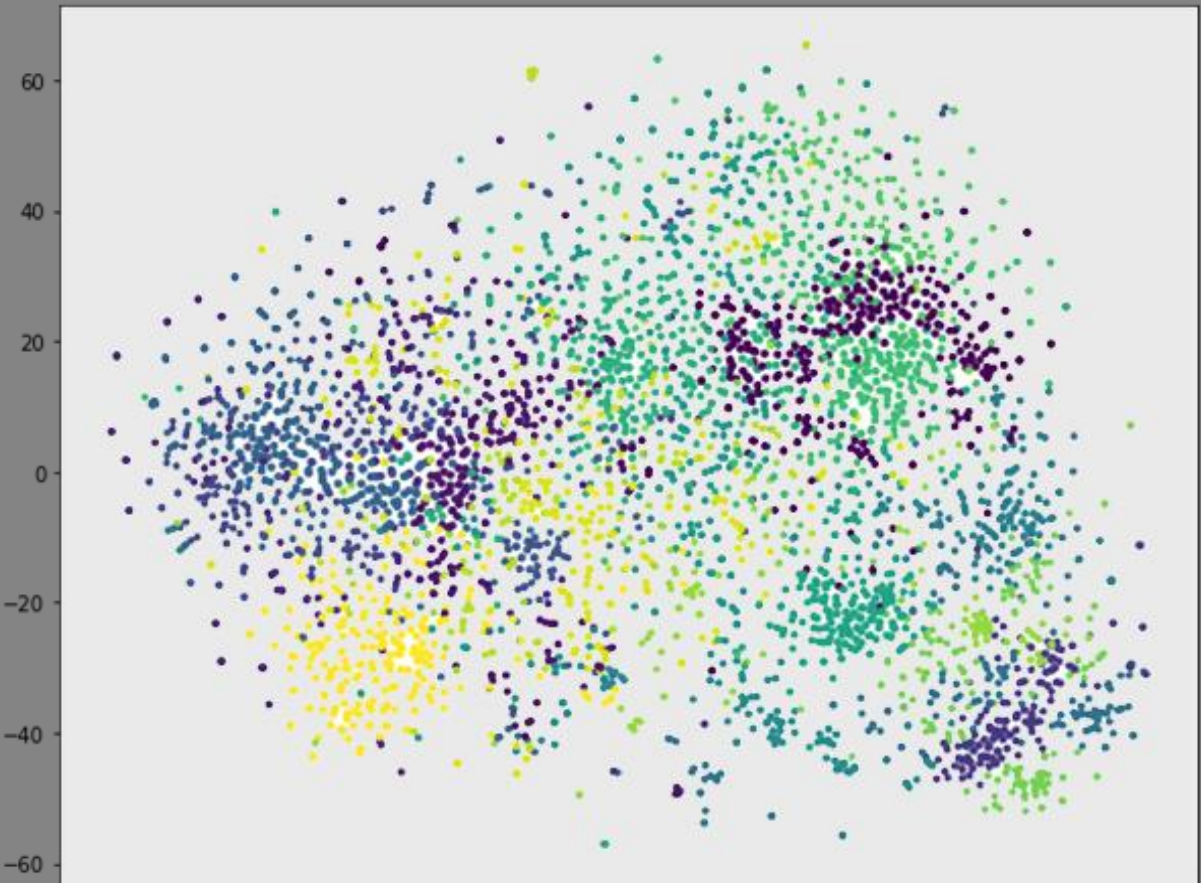
METHOD
AUTOENCODER to extract features
MATRIC of distance computed
perform Girvan-Newman

WORKFLOW

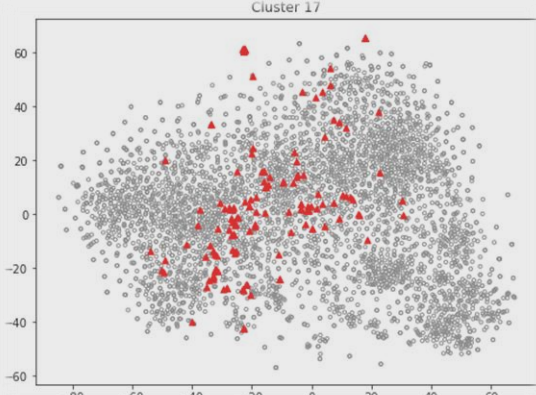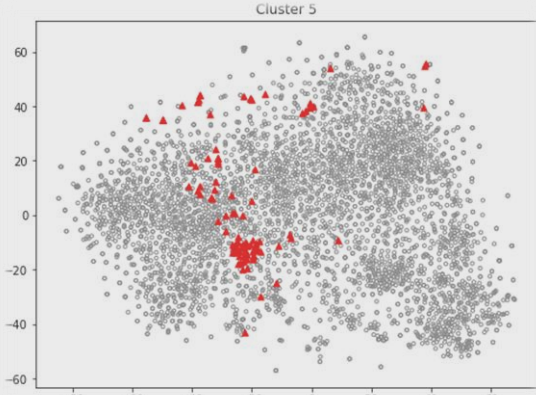| Distance matrix	Generate edges	Node deletion	Community detection algorithms	Analysis
Euclidean distance in the autoencoder hidden space	Choose a threshold.	To make graph sparse	Cluster leading eigenvector algorithm	Igraph and our 3D visualization demo

Clustering Result

RESULTS OBTAINED

Badges contains the same icon tends to be clustered together.
All the medical school has a icon of snap twisted on a cane.
Also, we find that the nodes connects green community (medical schools) and orange community are the medical schools that its icon is reshaped from the original snake cane.
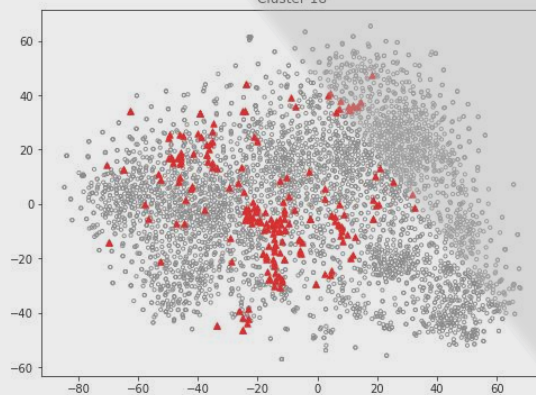

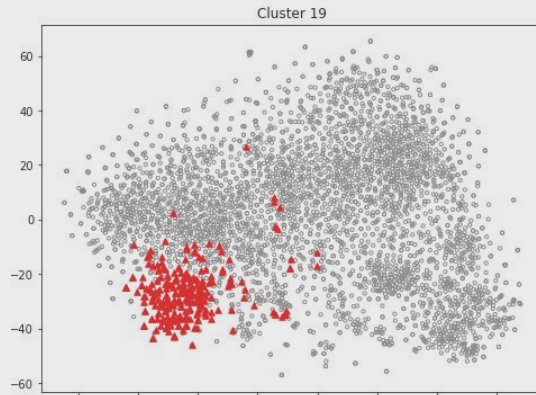Japan : 13%

Just the character: university

Germany : 53%

Kin, Queen, Goddess

UK : 17%

Shield and a hat

Indian : 24%

Rising Sun from sea and ocear