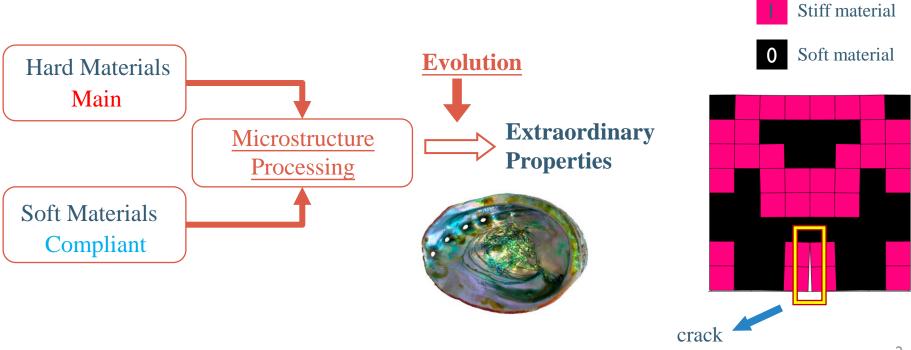


Midterm Mock Exam

狀況與問題

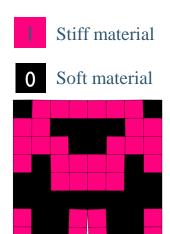
- 生物材料相較於傳統的人造材料而言,有著較為 優異的性能,微觀結構是造成兩者有巨大差別的 原因,像是複雜的軟硬材料排列就是原因之一。
- 這裡將利用軟硬材料的擺放,來改變整個材料的機械性質,強化材料抵抗裂紋擴張的能力,在資料中將會有四個分類代表材料性質的優異性。



Dataset and task introduction

- Dataset: a csv file with composites information.
- Task: Multi-class Classification (Excellent/good/fair/bad)
- Classify the properties of composites.

Excellent good Excellent Excellent bad



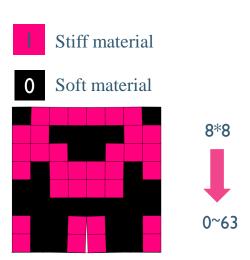
File descriptions

- · train.csv the training dataset
- val.csv the validation dataset
- test.csv the testing dataset
- sampleSubmission.csv a sample submission file in the correct format

Data Attribute Information

validation.csv:

larget		erties	prop	Material			Composites information													
Label	Soft poisson's ratio	Sotf critical strain	Soft E	Hard poisson's ratio	Hard critical strain	Hard E	63	62	61	8	7	6	5	4	3	2	1	0	id	
Excellent	0.08	0.20	0	0.05	0.03	100	1	1	1	1	1	1	1	0	0	1	1	1	1_0001.02	0
good	0.19	0.12	0	0.21	0.01	400	1	1	0	1	1	0	1	1	1	1	0	1	1_0002.01	1
Excellent	0.25	0.07	100	0.05	0.00	200	0	0	0	1	1	0	0	0	0	0	0	1	1_0003.01	2
Excellent	0.25	0.15	100	0.17	0.04	750	1	1	0	0	0	0	0	0	0	0	0	0	1_0004.01	3
bad	0.30	0.19	0	0.04	0.01	950	0	1	1	1	0	0	0	1	1	0	0	0	1_0005.02	4



Sample submission

- Predict 86100 number of data in the test set (test.csv)
- Upload format is csv.
- The first column must be index, the second column is the predicted result (Label).
- Each row is index and predicted label, please separate with commas.
- Evaluation: accuracy



	Α	В					
1	index	Label					
2	0	2					
2 3 4	1	2 2					
4	2	1					
5 6	2 3	1					
6	4	1					
7	5	2					
8	6	2					
4	n96081494						