

CURRENT SITUATION AND FUTURE DIRECTIONS

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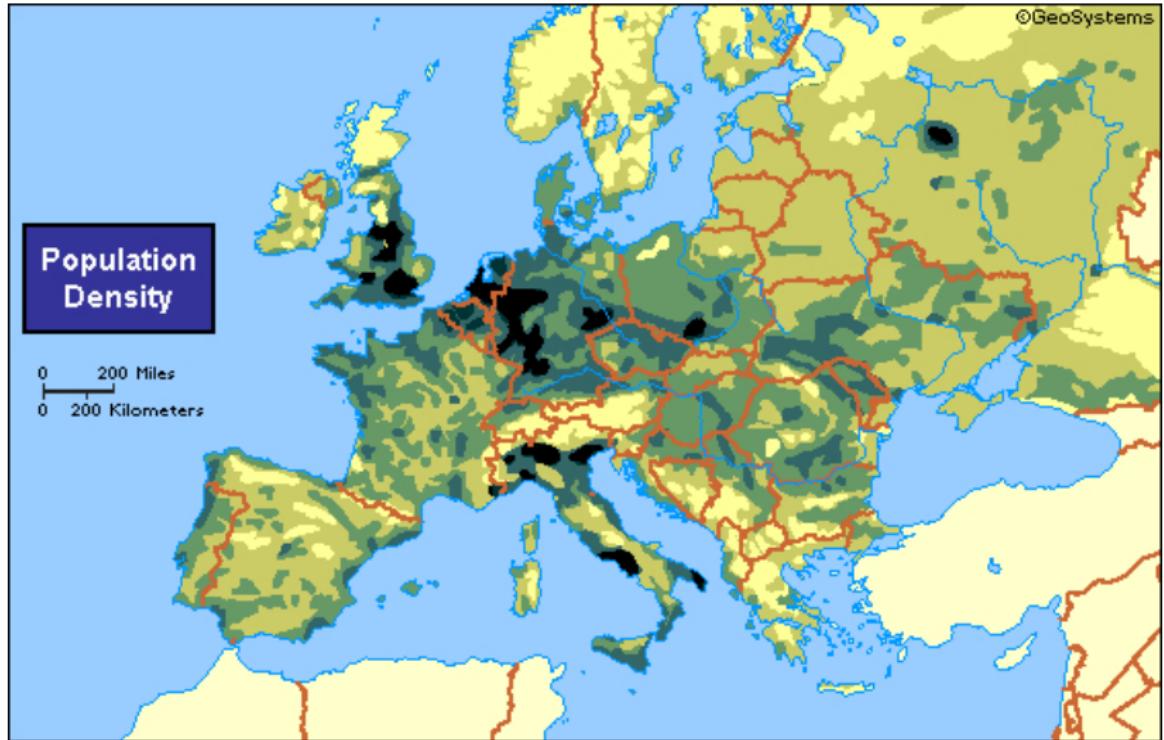
University Hospital of North Norway University of Tromsø

ISBI, April 13, 2016

- Motivation
- A new type of colour feature
- Current status and future directions



*Based on prices from six stores in each of two major supermarket chains in VIC, NSW and QLD on 11/03/15
Always read the label. Use only as directed.



DERMOSCOPE AND CAMERA



DIAGNOSIS CONFIRMED BY HISTOPATHOLOGY

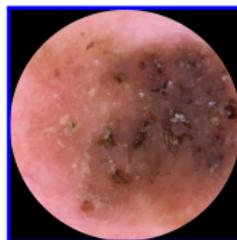
Benign



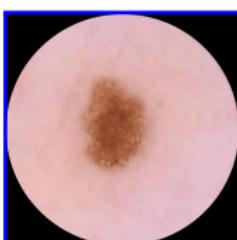
Malignant



Benign

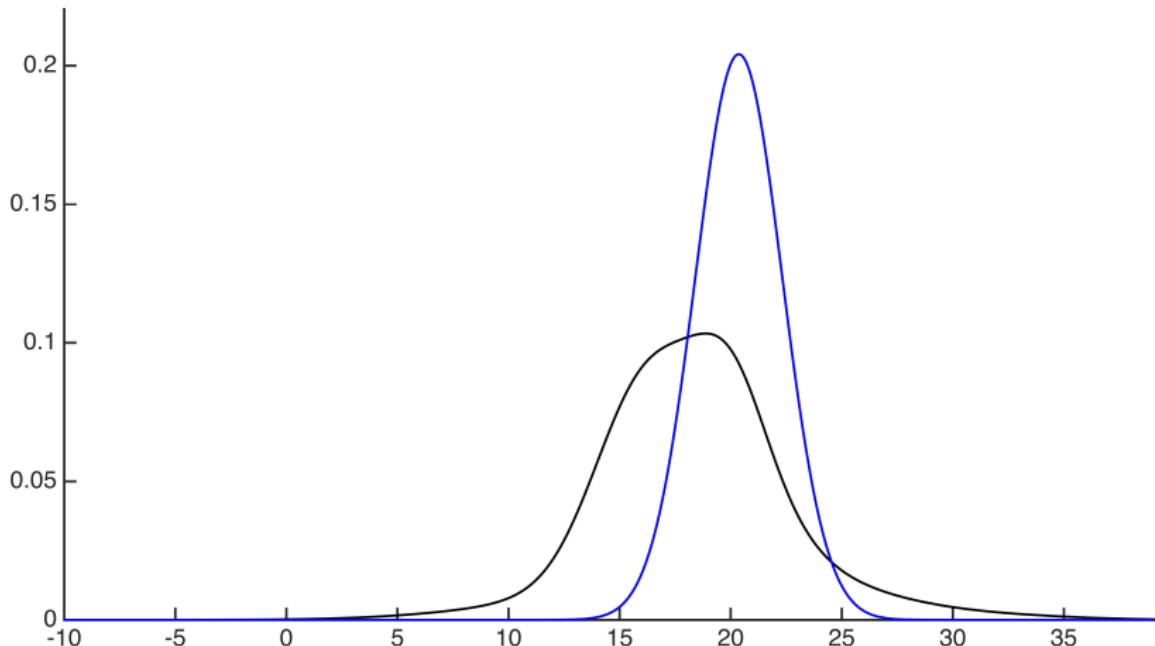


Malignant

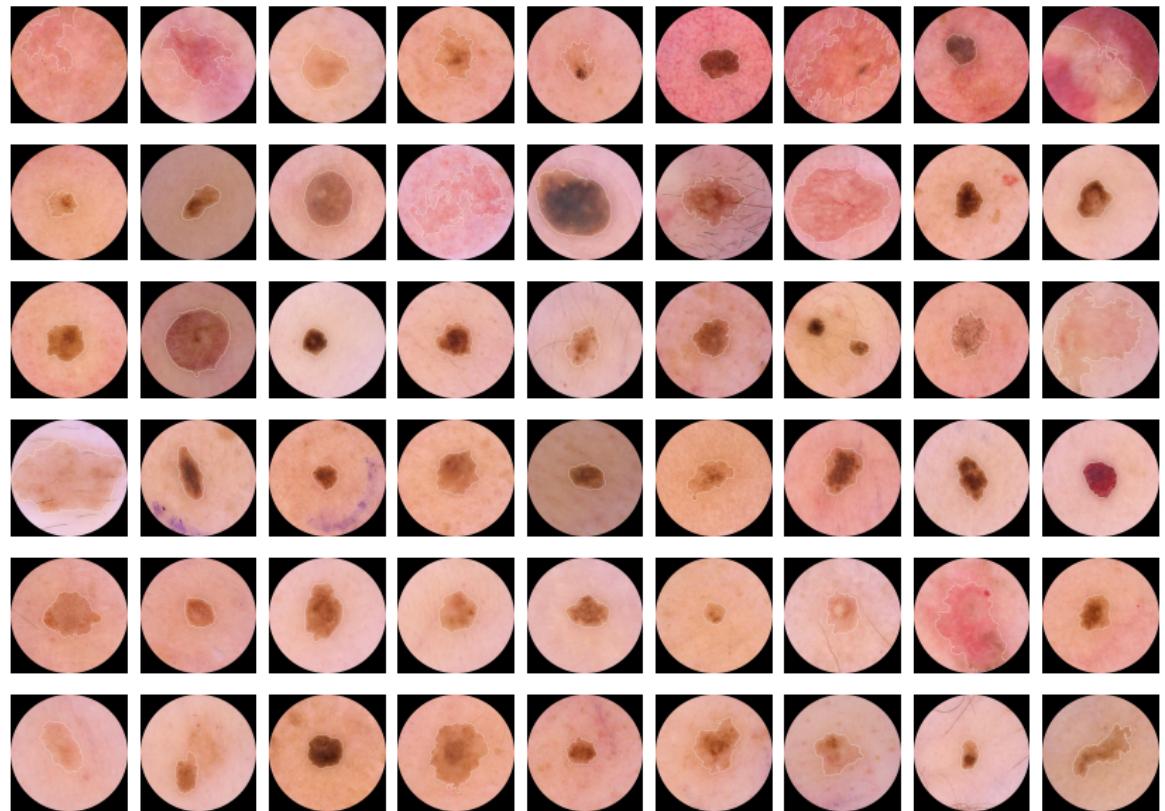


DIVERGENCE:

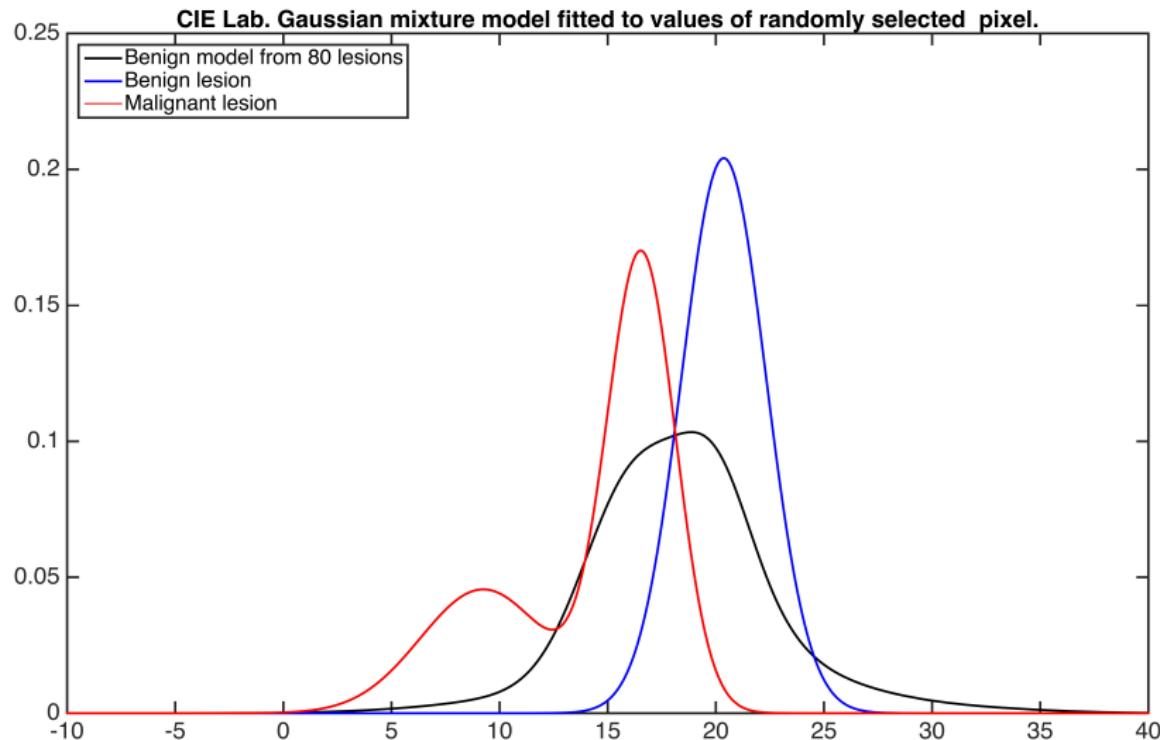
“DISTANCE” BETWEEN PROBABILITY DISTRIBUTIONS

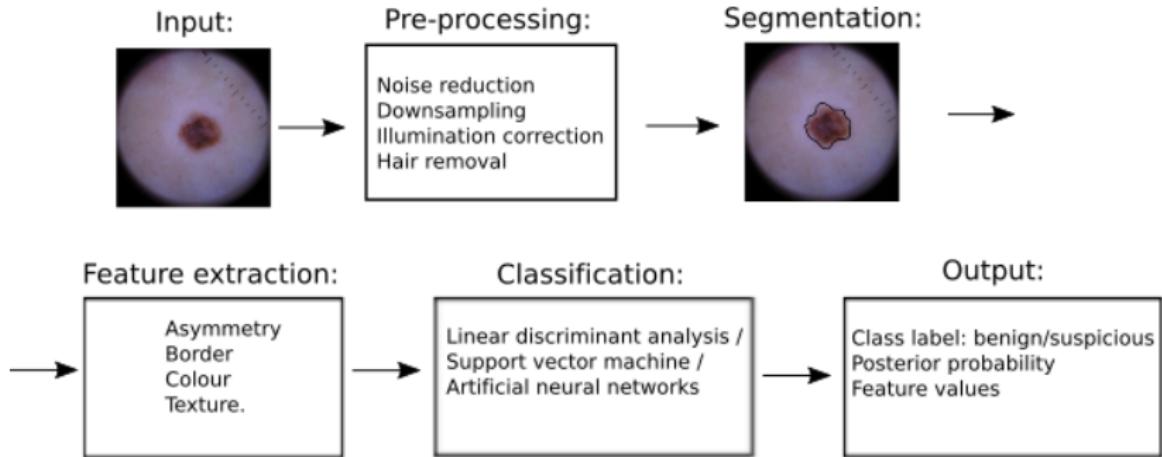


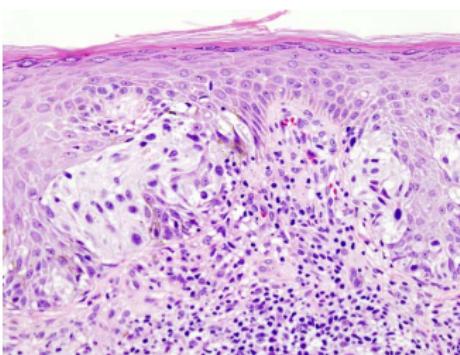
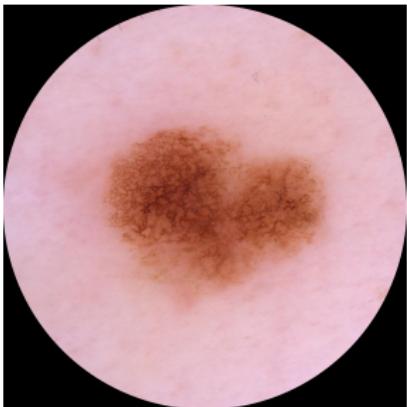
BENIGN LESIONS



THE BENIGN MODEL AND THE LESION MODELS

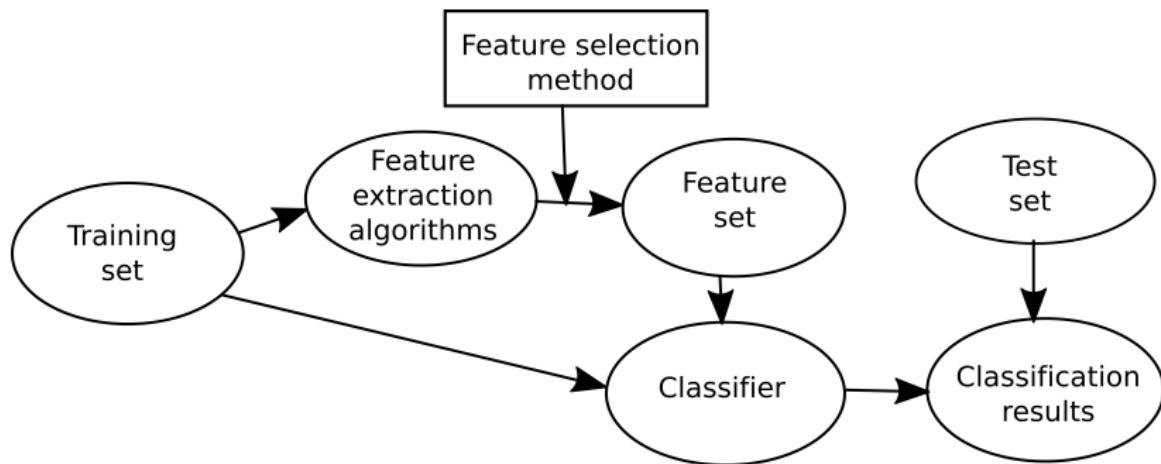






- Unsupervised learning
- Content-based image retrieval

UNSUPERVISED LEARNING



CONTENT-BASED IMAGE RETRIEVAL



