

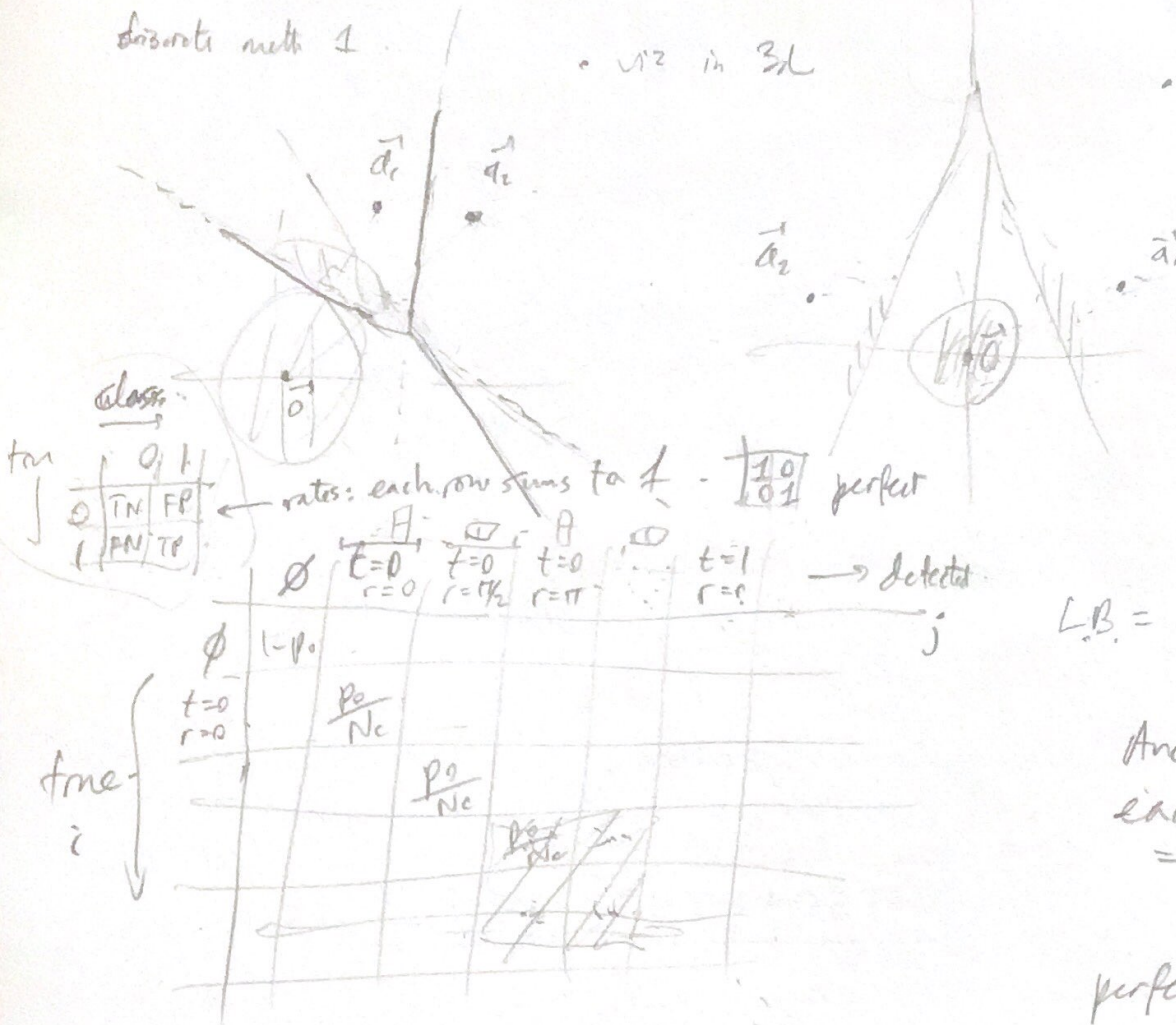
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Q 6/23/21

discrete with 1

• v^2 in $3d$

• bounds for FP?



U.B. on FP rate
= $N_{conf} \cdot \text{erf}(\text{worst})$

L.B. = $\text{erf}(\text{worst})$?

Another normalization
each row sum
= # times (true)
thing happened.

perfect $\begin{bmatrix} p_0 & 0 \\ 0 & p_0 \end{bmatrix}$

confusion matrix

perfect = diagonal.

imagesc

very roughly

$e^{-\frac{\|\vec{a}_i - \vec{a}_j\|^2}{2\sigma^2}}$ (compare matrices as in "Diffusion maps")

Modular codes: func to make mol (mol)

$[truth, y] = \text{func to gen. template}(\text{args: } N, \text{mol})$

$d = \text{func to detect}(y)$

func to plot the raw data

$C = \text{func to fill confusion matrix}(d)$

imagesc(C)

loop over σ .

$y: N=3 \text{ plots}$

$M \downarrow \begin{bmatrix} \text{image} \\ \text{image} \\ \text{image} \end{bmatrix} \rightarrow N$

$y = \text{gen data}(N, \text{mol}, \sigma)$
 $y = \text{gen data} + \sigma \cdot \text{rand.}$

ROC curve idea.

d1 histograms: $\min_{j=0, \dots, N_c} \|\bar{y} - \bar{a}_j\|_2^2$ $\bar{a}_0 = \bar{0}$
 ν_{noise}



World Newsreel, New York City; V Tape, Toronto, Canada. 28 minutes. (Co-producer
 Jul

$$d2 := \hat{a}^T \hat{y}$$

"Dists", a piece for a video art installation
 "Busting The

1993 Pr
 $N \leq 3 \max(p, q)$ cc
 H

$A t \approx 2 \max(p, q)$ P
 1992

Bull & C
 for diff.

defection
 methods. 1991

↳ Funcs
 ("dists") 1991

& 6's. 199

& aspect
 ratios

P/q 19

Make C
 frame
 for t's
 only. 1