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TO

P

$$P_{cat} = 4/(4+6+3) = 4/13 = 0.31$$

$$R_{cat} = 4/(4+6+3) = 4/6 = 0.67 = 0.31$$

$$P_{Fish} = 2|(2+1) = 2|3 = 0.67$$
 $R_{Fish} = 2|(6+2+2) = 2|10 = 0.2 = 0.2$ 

$$\frac{P_{Hen}}{R_{Hen}} = \frac{6}{6} \left( \frac{6+2+1}{6+3} \right) = \frac{6}{9} = 0.67$$

$$R_{Hen} = \frac{6}{6} \left( \frac{6+3}{6+3} \right) = \frac{6}{9} = 0.67$$

(2) 
$$S = (2+0+2+6)$$
 to  $S = TN/N = TN/(TN+FP)$   
Cat  $(2+2+6)+(6+3) = 19 = 0.53 = 0.6$ 

$$\frac{S_{Fish} = \frac{(4+3+6+1)}{(4+3+6+1)+(1+6)} = \frac{14}{15} = 0.93$$

$$\frac{(4+3+6+1)+(1+6)}{15} = 0.93$$

$$S_{Hex} = \frac{(6+3+2+0)}{(6+3+2+0)+(2+6)} = \frac{11}{19} = 0.625$$

$$Y = (5.1, 3.5, 1.4, 0.2)$$
 $y = (4.9, 3, 1.4, 0.2)$ 

$$(5.1 + 0.5(4.9-5.1)) = 5.1 - 0.1 = 5$$

$$3.5 + 0.5(3-3.5)) = 3.5 - 0.25 = 3.25$$

$$1.4 + 0.5(1.4-1.4)) = 1.4 + 0 = 1.4$$

$$0.2 + 0.5(0.2-0.2) = 0.2 + 0 = 0.2$$

3) Euclidean dist: 
$$\sqrt{(x_1-x_2)^2+(y_1-y_2)^2}$$
  
 $P_1 = (5.1, 3.5, 1.4, 0.2)$   
 $P_2 = (4.4, 3, 1.4, 0.2)$ 

$$b = \sqrt{(5.1 - 4.9)^{2} + (3.5 - 3)^{2} + 0 + 0}$$

$$= \sqrt{(5.1 - 4.9)^{2} + (3.5 - 3)^{2} + 0 + 0}$$

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$$x = (5.1 + 4.9 + 4.7) |_{3} = 4.9$$

$$y = (3.5 + 3 + 3.2) |_{3} = 9.7 |_{3} = 3.23$$

$$z = 4.9$$

$$y = (3.5 + 3 + 3.2) |_{3} = 9.7 |_{3} = 3.23$$

$$z = 4.9$$

$$z = 4.9$$

$$z = 4.9$$

$$z = 3.23$$

$$z = 4.9$$

$$z = 6.0 |_{3} = 0.2$$