

# Solutions to Selected Problems In: Pattern Classification by Duda, Hart, Stork

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## Problem Solutions

### Chapter 2 (Bayesian Decision Theory)

#### Problem 11 (randomized rules)

**Part (a):** Let  $R(x)$  be the average risk given measurement  $x$ . Then since this risk depends on the action and correspondingly the probability of taking such action, this risk can be expressed as

$$R(x) = \sum_{i=1}^m R(a_i|x)P(a_i|x)$$

Then the total risk (over all possible  $x$ ) is given by the average of  $R(x)$  or

$$R = \int_{\Omega_x} \left( \sum_{i=1}^m R(a_i|x)P(a_i|x) \right) p(x) dx$$

**Part (b):** One would pick

$$P(a_i|x) = \begin{cases} 1 & i = \text{ArgMin}_i R(a_i|x) \\ 0 & i = \text{anything else} \end{cases}$$

Thus for every  $x$  pick the action that minimizes the local risk. This amounts to a deterministic rule i.e. there is no benefit to using randomness.

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# Duda Hart Solution Manual

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