$$L^{ErrorRate} \quad \mathbf{E}_{\mathrm{I}} \left(S, \tilde{S} \right),$$

$$L^{MDL}(S) = \log(m_{att}) + \log\binom{m_{att}-1}{k-1} + \sum_{i=1}^{k}\left[\log\binom{|S_i|+C-1}{C-1} + \log\binom{|S_i|}{|S_{i,1}|,\ldots,|S_{i,C}|}\right] \quad (3)$$

where m_{att} is the number of at

$$L^{InfoGain}(S)$$

$$L^{GainRatio}(S) = \frac{L^{InfoGain}(S)}{-\frac{1}{|S|}\sum_{i=1}^{k} |S_i| \bullet \log\left(\frac{|S_i|}{|S|}\right)}$$