$(n) r(n_1s) = \frac{1}{n} \mathcal{E}_{n} \left(\frac{(s_1 - \overline{s})(m_1 - \overline{m})}{\sigma_{n}} \right)$ $Y(m, astb) = \frac{1}{n} \sum_{i} \left[as_{i} + b - \frac{1}{n} \sum_{i} (as_{i} + b) \left(m_{i} - m \right) \right]$ = \frac{1}{2} \left[\left[asi +b -a \frac{1}{n} \frac{1}{2} \left[si) + \frac{1}{n} \right] \left[mi_n - m \right] $=\frac{1}{n}\sum_{i}\left(\frac{(as_{i}tb-a\bar{s}tb)(m_{i}-\bar{m})}{Us'}\right)$ = \frac{5}{\sqrt{a(Si-\sqrt{s)(mi-m)}}} Y (M,S) Useful for image to analysis, especially template matching, 1 (b) Use it as a score to determine if the location and template motioner. When NCC=1, they are perfect month. When NCC=-1, they are an inverted month. 1 (c) It is coeful as it suggests that the image is not biased tornands 1 or 1, this is good for template natching (d)



