## Feature Extraction and Image Processing in Computer Vision – Third Edition

## **Known Errors**

Apologies. Here's a list of errors found (and for which beer was awarded) with changes underlined.

Pg 1 "vision, on how a computer" -> "vision, or how a computer"

Pg 67 "by subtraction of the two (Figure 2.22(d))" -> by subtraction of the two (Figure 2.22(h))

Pg 86 "for addition in code 1.3" -> "for addition in code 1.5"

## Pg 100 template convolution code rewritten as

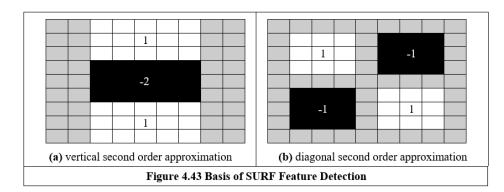
## and normalisation removed.

Pg 117 "
$$\nabla_E(\mathbf{P}_{x,y}) = \mathbf{P}_{x-1,y} - \mathbf{P}_{x,y}$$
" -> " $\nabla_E(\mathbf{P}_{x,y}) = \mathbf{P}_{x+1,y} - \mathbf{P}_{x,y}$ " and

"
$$\nabla_{W}(\mathbf{P}_{x,y}) = \mathbf{P}_{x+1,y} - \mathbf{P}_{x,y}$$
" -> " $\nabla_{W}(\mathbf{P}_{x,y}) = \mathbf{P}_{x-1,y} - \mathbf{P}_{x,y}$ "

$$\operatorname{Pg} 165 \text{ "}\sigma \nabla^2 g(x,y,\sigma) = \frac{\partial g}{\partial \sigma} = \frac{g(x,y,k\sigma) - g(x,y,\sigma)}{k\sigma - \sigma} \text{"} \Rightarrow \text{"}\sigma \nabla^2 g(x,y,\sigma) = \frac{\partial g}{\partial \sigma} = \lim_{k \to 1} \frac{g(x,y,k\sigma) - g(x,y,\sigma)}{k\sigma - \sigma} \text{"}$$

Pg 197



Pg 267

$$\varphi'(\theta) = \frac{y'(\theta)}{x'(\theta)} = \frac{-a_y \sin(\theta) + b_y \cos(\theta)}{-a_x \sin(\theta) + b_y \cos(\theta)}$$

Pg 379 Eq 7.68 
$$P(S) = \int_{t} \sqrt{(x'(t))^{2} + (y'(t))^{2}} dt''$$

Pg 388 "skew invariant deigned" -> "skew invariant designed"

Pg 400 "local binary patterns (LPB)" -> "local binary patterns (<u>LBP</u>)"

Pg 472 The textbook by Porikli and Davis never materialised

Pg486 as previous and delete citation

Pg498 delete " $c_1$ =" in Eq. 10.33

Pg565 "LAB" -> "CIE L\* a\* b\*"