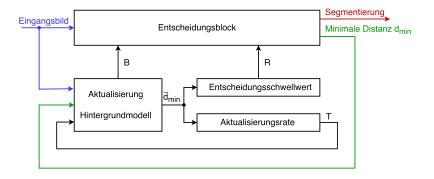
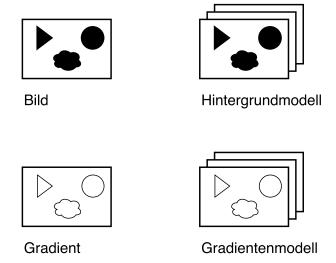
Pixel-Based Adaptive Segmenter

Gesamtschaltung

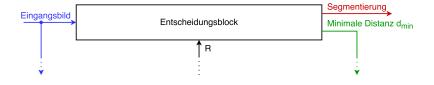


Blockschaltbild der Gesamtschaltung

Hintergrundmodelle



Entscheidungsblock I



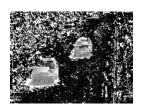
Distanz = |Bild - Hintergrund modell| + |Gradient - Gradienten modell|

$$F(x) = \begin{cases} 1, & \# \{ \text{Distanz} < R \} < \#_{min} \\ 0, & \text{sonst} \end{cases}$$

Entscheidungsblock II



Original

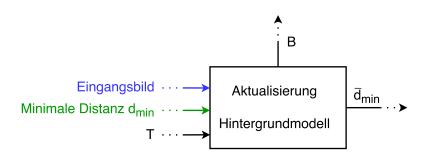


Distanz



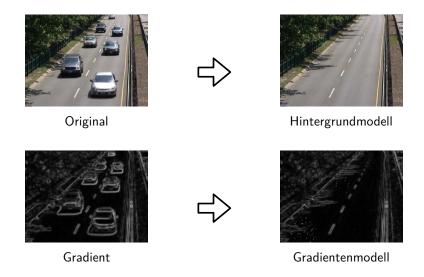
Vordergrund

Aktualisierung Hintergrundmodelle I

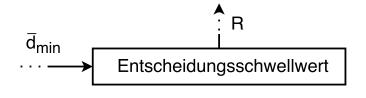


- Aktualisiert Hintergrund- und Gradientenmodell
- ▶ Nur Hintergrundbereiche und zufällige Ebene

Aktualisierung Hintergrundmodelle II



Aktualisierung Schwellwerte I

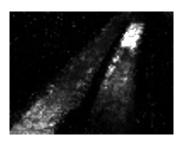


$$R = \left\{ egin{array}{l} R(1-R_{inc/dec}), & R < \overline{d}_{min}R_{scale} \ R(1+R_{inc/dec}), & sonst \end{array}
ight.$$

Aktualisierung Schwellwerte II

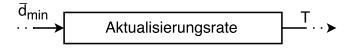


Original



Schwellwert

Aktualisierungsrate I

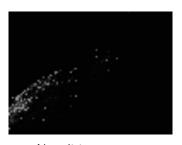


$$T = \left\{ egin{array}{ll} T + rac{T_{inc}}{\overline{d}_{min}}, & F = 1 \ T + rac{T_{dec}}{\overline{d}_{min}}, & F = 0 \end{array}
ight.$$

Aktualisierungsrate II



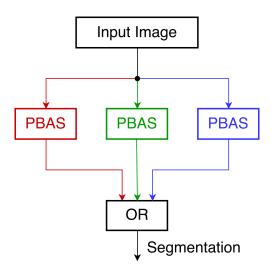
Original



Aktualisiue rungs rate

Wahrscheinlichkeit = 1/Aktualisierungsrate

Multiprocessing



11/11