





The Horn & Schunck method

- Problem I: Singularities when ∇*I*= 0
- Problem II:

Does not provide a unique solution since $\alpha(u, v)$ can be arbitrary chosen

• Problem III:

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Strong variations in ∇I may not correspond to strong variations in $\mathbf{v}(u, v)$

Lecture 5

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The Horn & Schunck method

• H&S used a smoothness term:

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$$\|\nabla v_1\|^2 + \|\nabla v_2\|^2$$

• Other types of smoothness terms are appear in the literature

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