

































![](_page_2_Picture_6.jpeg)

![](_page_3_Figure_1.jpeg)

![](_page_3_Figure_2.jpeg)

![](_page_3_Picture_3.jpeg)

![](_page_3_Figure_4.jpeg)

![](_page_3_Figure_5.jpeg)

![](_page_3_Figure_6.jpeg)

## Stereo Correspondence

![](_page_4_Figure_1.jpeg)

![](_page_4_Figure_2.jpeg)

![](_page_4_Figure_3.jpeg)

![](_page_4_Picture_4.jpeg)

![](_page_4_Figure_5.jpeg)

## Stereo Correspondence

![](_page_5_Figure_1.jpeg)

Local Optimisation

- **Pros**: simple computations; easily takes account of both *x*- and *y*-disparities of the corresponding pixels
- Cons for independent selection of 3-D points: the found surfaces may violate visibility and continuity constraints
- Cons for guiding next search by the current surface: due to accumulation of local errors, the search regions after a few steps may become completely wrong
- Cons in both cases: it needs intensive on- or off-line editing of the reconstructed 3-D scene to fix errors

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![](_page_5_Figure_8.jpeg)

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