

Motion-based object segmentation in video sequences

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Propositions

accompanying the dissertation

MOTION-BASED OBJECT SEGMENTATION IN VIDEO SEQUENCES

by

Wei ZHAO

1. Motion data is essential for learning to see.
2. The data you collect depends on the way you collect it (Chapter 5).
3. Temporal motion consistency is as important as spatial motion consistency, when determining independently moving objects (Chapter 6).
4. 3D motion models improve the segmentation of moving objects when the data contains little noise (Chapter 7).
5. Motion-based techniques can also find static objects (Chapter 8).
6. In science, the problem definition essentially affects the methodology.
7. It is worthwhile to build a large public visual dataset describing features of images and videos to boost research in computer vision.
8. Only when automated learning from videos leads to understanding, have you achieved true machine intelligence
9. Doing a PhD is not only a process of exploring new areas of knowledge, but also a route to know yourself.
10. “So Long, and Thanks for All the Fish.” — Douglas Adams.