Figure 11: A connectivity graph constructed from temporal relationships. Time progresses along the horizontal axis. Vertical lines represent frames and black dots are nodes of the graph (segments). Label A shows an edge that spans two frames, label B marks a case where segments are split. At the location of label C the segments merge again. Label D marks nodes that have no connected edges.

Figure 12: A subgraph extracted from a connectivity graph. Individual segments have red contours. The green lines represent the edges (temporal relationships) in the subgraph. Temporal relationships that span several frames exist as well but are not shown to improve readability.

Figure 13: Spatial merging of a subgraph. The resulting segments are more robust and more expressive than the original segments. All unnecessary edges in the graph are pruned. The result is a coherent spatio-temporal segment.