**Supplemental material**

**Stroke statistics**

For each sequence we list the total number of frames of the sequence, the number of key frames set by the user and the total number of strokes drawn in the key frames. Stroke percentage is the ratio between the number of drawn strokes to the number of all strokes in all frames.

<table>
<thead>
<tr>
<th>Sequence</th>
<th># of frames</th>
<th># of key frames</th>
<th>Stroke count</th>
<th>Stroke percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cheetah</td>
<td>64</td>
<td>4</td>
<td>19</td>
<td>4.24%</td>
</tr>
<tr>
<td>Dog</td>
<td>38</td>
<td>3</td>
<td>11</td>
<td>4.13%</td>
</tr>
<tr>
<td>Elephant</td>
<td>45</td>
<td>7</td>
<td>19</td>
<td>4.92%</td>
</tr>
<tr>
<td>Greyhound</td>
<td>88</td>
<td>5</td>
<td>19</td>
<td>3.08%</td>
</tr>
<tr>
<td>Kangaroo</td>
<td>65</td>
<td>4</td>
<td>17</td>
<td>3.26%</td>
</tr>
<tr>
<td>Zebra</td>
<td>47</td>
<td>4</td>
<td>12</td>
<td>4.25%</td>
</tr>
<tr>
<td>Horse</td>
<td>60</td>
<td>5</td>
<td>14</td>
<td>3.33%</td>
</tr>
<tr>
<td>Snake</td>
<td>49</td>
<td>3</td>
<td>3</td>
<td>6.12%</td>
</tr>
<tr>
<td>Camel</td>
<td>60</td>
<td>5</td>
<td>16</td>
<td>3.81%</td>
</tr>
<tr>
<td>Giraffe</td>
<td>29</td>
<td>4</td>
<td>16</td>
<td>6.80%</td>
</tr>
<tr>
<td><strong>Average</strong></td>
<td><strong>54.5</strong></td>
<td><strong>4.4</strong></td>
<td><strong>14.6</strong></td>
<td><strong>4.39%</strong></td>
</tr>
</tbody>
</table>
The task of this user study is to reconstruct consistent, deformable 3D-geometry from a monocular video sequence. For this task you will use a prototype that requires some user input in form of sparse “bone strokes”. Before you start you will get a short explanation of the user interface with the Cheetah sequence.

**Task**
Reconstruct the Dog sequence as good as possible in at most 5 minutes.

*Thank you for your participation!*
User study results

User 1
Time: 5:00
Stroke count: 11

User 2
Time: 3:00
Stroke count: 9

User 3
Time: 2:40
Stroke count: 8
User 4
Time: 2:50
Stroke count: 10

User 5
Time: 5:00
Stroke count: 9

User 6
Time: 4:00
Stroke count: 11
User 7
Time: 2:30
Stroke count: 8

User 8
Time: 4:00
Stroke count: 10

User 9
Time: 4:10
Stroke count: 11