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and Video Computing <b>Guidelines for Calibration</b>
<ul> <li>Pick up a well-known technique or a few</li> </ul>
<ul> <li>Design and construct calibration patterns (with known 3D)</li> </ul>
<ul> <li>Make sure what parameters you want to find for your camera</li> </ul>
<ul> <li>Run algorithms on ideal simulated data</li> </ul>
<ul> <li>You can either use the data of the real calibration pattern or using computer generated data</li> </ul>
<ul> <li>Define a virtual camera with known intrinsic and extrinsic parameters</li> </ul>
<ul> <li>Generate 2D points from the 3D data using the virtual camera</li> </ul>
<ul> <li>Run algorithms on the 2D-3D data set</li> </ul>
<ul> <li>Add noises in the simulated data to test the robustness</li> </ul>
<ul> <li>Run algorithms on the real data (images of calibration target)</li> </ul>
<ul> <li>If successful, you are all set</li> </ul>
<ul> <li>Otherwise:</li> </ul>
<ul> <li>Check how you select the distribution of control points</li> </ul>
Check the accuracy in 3D and 2D localization
<ul> <li>Check the robustness of your algorithms again</li> </ul>
<ul> <li>Develop your own algorithms → NEW METHODS?</li> </ul>

