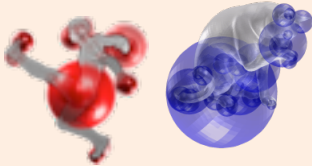
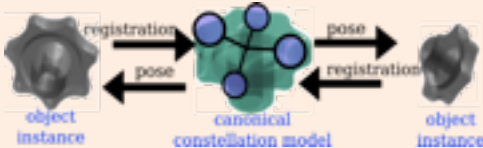
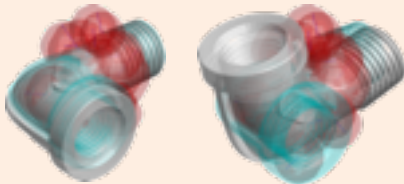

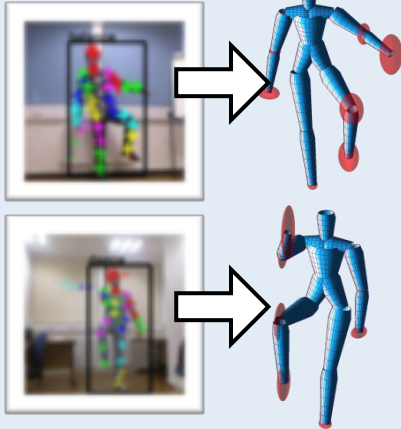
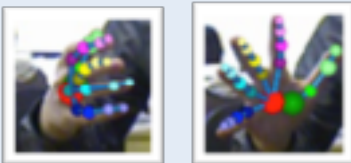


Data Tasks	Part I – 3D shape	Part II – Human action analysis	
<div>Feature detection</div> <div>Features are detected from the input 3D data for further processing.</div> <div></div> <div>Object classification</div> <div>The input 3D instance is classified.</div> <div></div> <div>Pose estimation</div> <div>The pose of the input instance is estimated.</div>	<div>Chapter 2</div> <div>Evaluation of 3D feature detectors</div> <div>  </div> <div>Common 3D feature detectors are evaluated.</div>		
	<div>Chapter 3</div> <div>Weakly-supervised 3D constellation model from unknown poses</div> <div>A new constellation model is learned to perform object classification and registration simultaneously.</div> <div>  </div> <div>  </div>		
		<div>Chapter 4</div> <div>Human action classification</div> <div>A real-time algorithm is proposed to classify human actions from videos.</div> <div>  </div>	<div>Chapter 5</div> <div>3D human body pose estimation</div> <div>Action detection is combined with regression forest to estimate 3D human body poses from monocular, unconstrained videos.</div> <div>  </div>
		<div>Chapter 6</div> <div>3D hand pose estimation</div> <div>A new random forest algorithm is proposed to estimate 3D hand poses from depth images.</div> <div>  </div>	