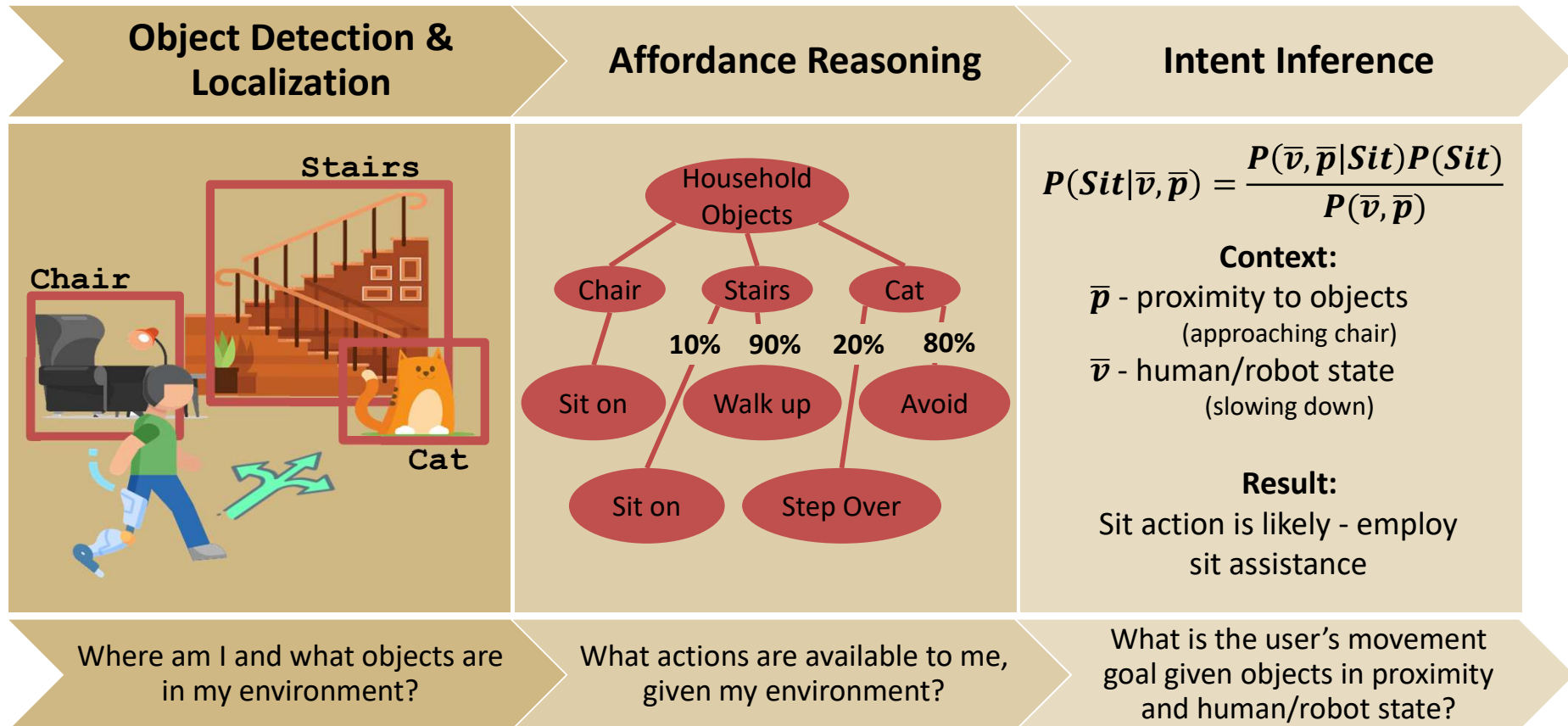


Context-aware User Intent Inference for Lower-Limb Assistive Robots

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Intro: How can we use computer vision to better understand and react to user intentions for lower-limb assistive robotic applications like prostheses and exoskeletons?

Intellectual Merit: Computer vision, which has previously been under-utilized for lower-limb assistive robotics, will enable context-aware assistive control decisions such as 'don't sit without a chair'.

Broader Impact: Context reasoning will allow assistive robots greater utility in real-world situations such as activities of daily living, resulting in improved quality of life after neuro-muscular injury.