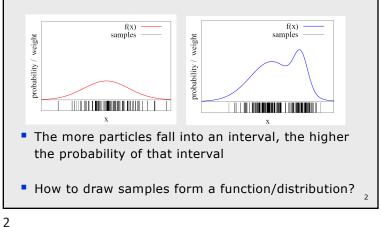
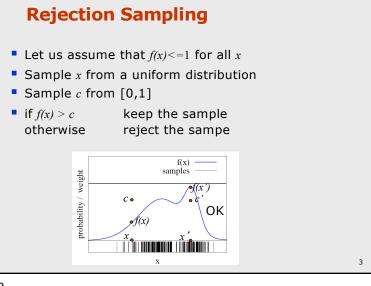


Density Approximation

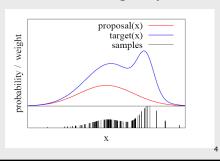
Particle sets can be used to approximate densities

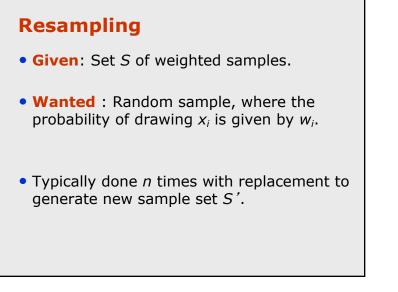


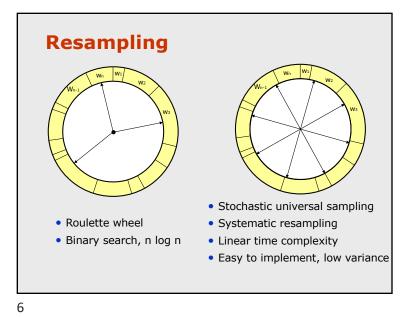


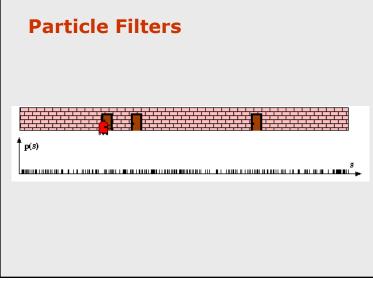
Importance Sampling Principle

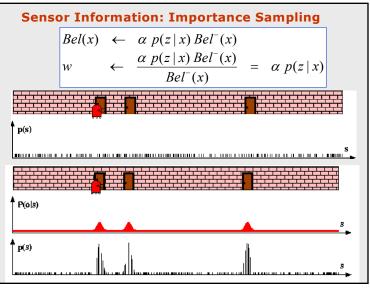
- We can even use a different distribution g to generate samples from f
- By introducing an importance weight w, we can account for the "differences between g and f"
- w = f/g
- f is often called target
- g is often called proposal

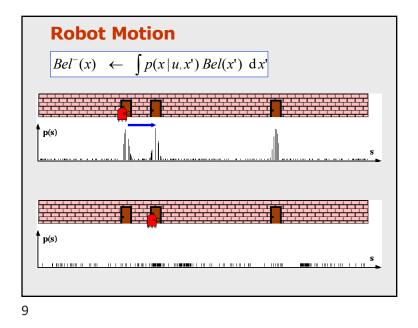


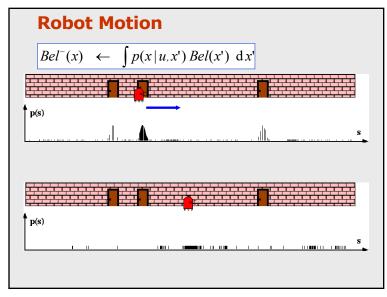


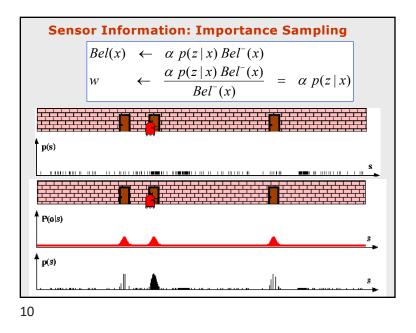


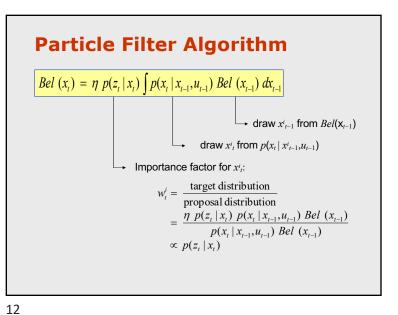


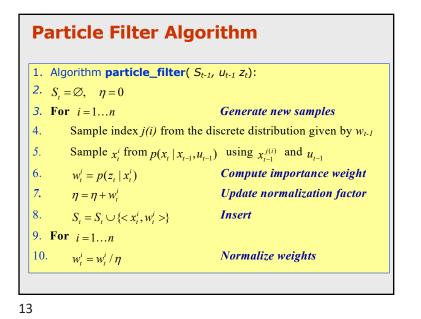


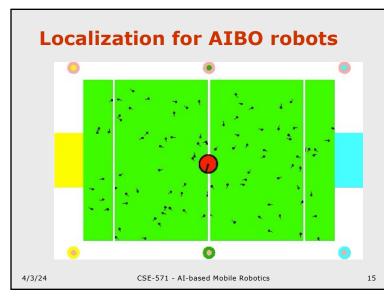




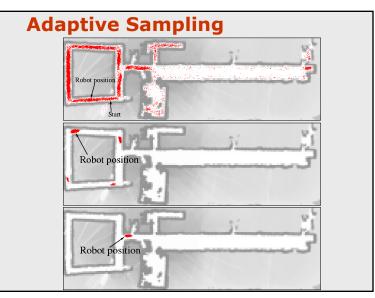


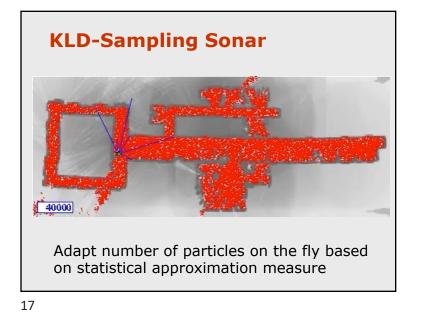


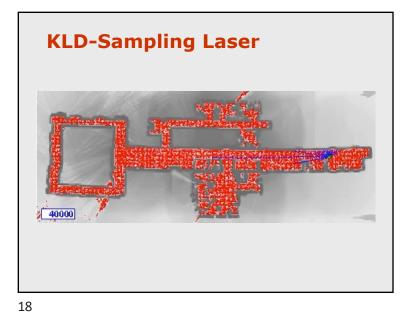


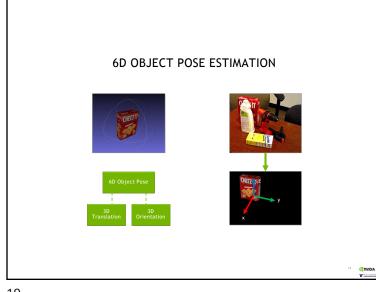


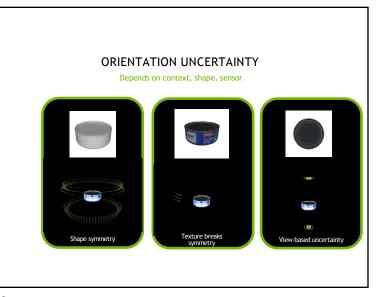


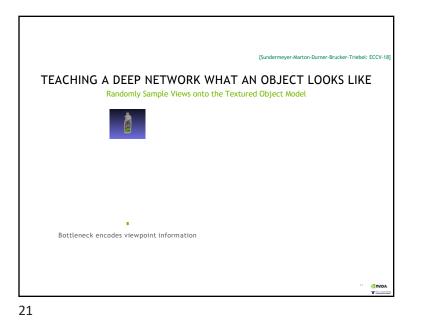


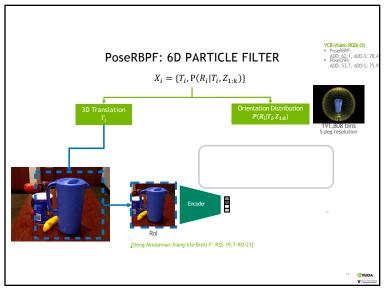


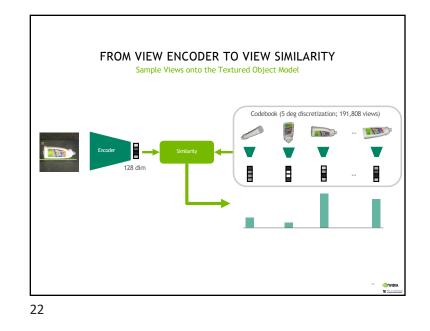
















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