

Midterm Review

Thursday, November 21, 2024

4:55 PM

Helpful Sites:

- <https://www.omscs-notes.com/robotics-ai-techniques/welcome/>
 - <https://matterofmath.com/trigonometry/unit-circle/>
- [Probability Review For AI](#)

Conditional Inference

C \ W	sunny	cloudy	rain
T	.05	.2	0
F	.05	.4	.1

- $P(C=\text{true} \mid W = \text{sunny})$
- Remember that: $P(a|b) = \frac{P(a \wedge b)}{P(b)}$
- $P(C=\text{true} \mid W = \text{sunny}) = ??$

- <https://www.kalmanfilter.net/default.aspx>
- [Particle Filter Explained without Equations](#)



- <https://engineeringmedia.com/controlblog/the-kalman-filter>

- <https://engineeringmedia.com/controlblog/the-kalman-filter/>
- <https://teapowered.dev/assets/ai4r-notes.pdf>
- <https://calvinfeng.gitbook.io/probabilistic-robotics/localization/grid-and-monte-carlo/monte-carlo-localization>
- <https://www2.math.upenn.edu/~mmerling/math107%20docs/practice%20on%20Bayes%20solutions.pdf>
- [Probability Review For AI](#)
- <http://www.stat.yale.edu/Courses/1997-98/101/condprob.htm>
- <https://math.stackexchange.com/questions/4382033/the-probability-of-not-raining-on-a-weekend>
- <https://learn.udacity.com/courses/cs373/lessons/bc70d571-18a5-4253-9207-09baf9bee9fb/concepts/1cf4169f-de9e-4f4a-9ba5-e888482a6403/quiz>
- <https://engineeringmedia.com/controlblog/the-kalman-filter>
- [Particle Filter Explained without Equations](#)
- <https://matterofmath.com/trigonometry/unit-circle/>
- <https://www.omscs-notes.com/robotics-ai-techniques/localization-overview/#total-probability>
- <https://learn.udacity.com/courses/cs373/lessons/bc70d571-18a5-4253-9207-09baf9bee9fb/concepts/6ff4b105-004e-4ca1-8b00-d4e618314c58/quiz>