

CS 6515: Homework 7

Due on Monday, November 6, 11:59pm via Gradescope.
Late submission with 10% penalty until Tuesday, November 7, 11:59pm.

Professor Brito

CS 6515

Suggested reading.

See **Probability and Computing** by Michael Mitzenmacher and Eli Upfal for Karger's randomized min-cut algorithm, **chapter 1.5**. Watch the lecture by prof. Vigoda for Randomized Rounding (see Canvas).

Problem 1

(Bayes Formula and the Law of Total Probability)

(a)

(b)

Problem 2*(Hitting-Set)*

(a)

(b)

(c)

(d)

(e)