1 Distributions

1.1 Uniform Distribution

Lite.

1.2 Poisson Distribution

1.3 Exponential Distribution

1.4 Normal Distribution

Properties to keep in mind

1. 68-95-99.7 Distribution

Normal Distribution in a Variate X with mean μ and variance σ^2 with PDF

$$P(x) = \frac{1}{\sigma\sqrt{2\pi}} e^{-\frac{(x-\sigma)^2}{2\sigma^2}}$$

2 LNN and CLT

3 Transformations

3.1 Jacobian

4 Random Process

5 Complex Analysis

5.1 Basic Properties

5.2 Complex Field

5.3 Polar Representation

5.3.1 De Moivre's Theorem