UCLA Biostatistics 285: Homework 2

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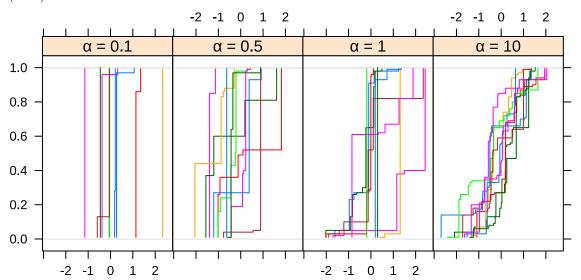
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1 Problem 1

1.1 Part 1

The function Sethu_jump generates the jumps given a truncation option and a α . The generate_DPH uses a jump function (here we use the Sethu_jump) and takes input a base measure and its parameters along with α , truncation parameter K and number of samples to be generated. The final output is realizations of $DP(\alpha, \mathcal{N}(0, 1))$ approximated by finite truncation with 20 terms as described in Ishwaran and Zarepour (2002).



References

Ishwaran, Hemant, and Mahmoud Zarepour. 2002. "Exact and Approximate Sum Representations for the Dirichlet Process." Canadian Journal of Statistics 30 (2): 269–83. https://doi.org/https://doi.org/10.2307/3315951.