

1	[OALD], [OAHIND] [OS, 1 NO)
1	Now that you have T, AXA "Gibbs chair". Tordered set.
	you "thin" the chain and are left with an unordered set of its samples
	from P(O1,, Op(X):] [OB+T, 1] [
	average uniturnas.
	Now we can do Bayestan Inference.
19	DJI MMSE := E[OsIX] & to Fig ORIJ = OJ
	CR [05, 95%] = [sample quantile [05's, 2.5%], sample quantile [05's, 97.5%]]
	Ho: 05 = 00, Ha: 057 00
	pralue = P(Holx) = P(OJ = 00 X) = \frac{1}{x} \frac{1}{k=1} \Partial Old = 0. \text{ Gibbs sampler \in Oo.}
	12 NOTICE OF COURSE STREET, STORIES OF STORIES OF
	sample from P(X*1.X)? Recall P(X*1X) = S - S P(X*101, , Op) P(O1, Bp(X) do1, dop.
	(I) Sample From the OTOBOS Set
	D Sample X+ from tikelihood model P(X+1 = 0 samp)
	@ Repeat many filmes.
100	Change point detection model x
	There's some process where a number
	parameter changes somewhere the change to th
	point) # of samples
	In time. m/ n-m/
	LOT XI, - XIM TO POTSSON (21)
	Xn+1,, Xn Tel Pot4501(92)
	Priors 21 ~ Gamma (1,0) & 1 (haplace) principle of
-	2 ~ Gamma (1:0) & 1 Chaplace) indifference.
	m ~ Unif(4(1121, NY) = in & 1 (Laplace) & independent

Lange A

	P(2, 22, m1 x1,, xu) & P(x1,, xu12, 20, m) P(2, 20, m)
	= P(X1,, Xm(A1)) P(Xm+1,, Xu(A1)) P(A1)P(A1) P(m)
	= # e-2 2, 2x # 1 e-2 22 2x 2x
	A=1 Th! A=mel Th!
	= e-mai 2, tai e-(n-m/2 22 tamti
	$= \frac{m}{m} \frac{e^{-2\alpha_1} x_1^{2\alpha_1}}{2\alpha_1!} \frac{1}{m} \frac{e^{-2\alpha_1} x_2^{2\alpha_1}}{2\alpha_2!}$ $= \frac{e^{-2\alpha_1} x_1^{2\alpha_1}}{2\alpha_2!} \frac{1}{m} \frac{x_2^{2\alpha_1}}{2\alpha_2!} \frac{1}{m} \frac{x_2^{2\alpha_1}}{2\alpha_2!}$ $= \frac{e^{-2\alpha_1} x_1^{2\alpha_2}}{2\alpha_2!} \frac{1}{m} \frac{x_2^{2\alpha_1}}{2\alpha_2!}$
	α e-maie-nazemaz η = an nz + somet
	Note: this to not a kernel of a known distri.
	Lets use 6tbbs sampling
	Vets use 6tbbs sampling P(a,1 —) x e-ma, a, 其如+1-1 x Gamma (異如+1, m) V
	P(721 -) & e-(n-m) 72 /2 Fint Not +1-1 & Gamma (Fint 7x+1, n-m) V
	P(m1 -) & e-(n1-n2)m n, = n+ n2 time x+ = k(m1 -)
	we grid sampling
	$P(m(-) = \frac{k(m(-))}{\widehat{x} k(m(-))}$
	mes K(ml-)
100000000000000000000000000000000000000	
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