Probabilità e Statistica - 11 Giugno 2013

	C1	C2	C3	C4	E1	E2
F1	$0,23976 = 240/1001$	$0,39347$	$0,18697$	$0,36788$	$L = \lambda^{2n}(x_1 - 3)\dots(x_n - 3)e^{-\lambda\sum_i x_i + 3\lambda n}$ $T = \frac{2}{\bar{X}_n - 3}$	$\alpha = 8$ (tabella) $f(X\|Y = i) = f_{X,Y}(X, y = i)/f_Y(y = i), \quad i = 1, 2$ X, Y dipendenti $P = \frac{3}{4}$
F2	$0,14985 = 150/1001$	$0,28347$	$0,31939$	$0,36788$	$L = \lambda^{2n}(x_1 - 2)\dots(x_n - 2)e^{-\lambda\sum_i x_i + 2\lambda n}$ $T = \frac{2}{\bar{X}_n - 2}$	$\alpha = 16$ (tabella) $f(X\|Y = i) = f_{X,Y}(X, y = i)/f_Y(y = i), \quad i = 1, 2$ X, Y dipendenti $P = \frac{3}{4}$
F3	$0,39161 = 56/143$	$0,22120$	$0,41017$	$0,36788$	$L = \lambda^{2n}(x_1 + 1)\dots(x_n + 1)e^{-\lambda\sum_i x_i - \lambda n}$ $T = \frac{2}{\bar{X}_n + 1}$	$\alpha = 6$ (tabella) $f(X\|Y = i) = f_{X,Y}(X, y = i)/f_Y(y = i) = f_X(x), \quad i = 1, 2$ X, Y indipendenti $P = \frac{1}{4}$
F4	$0,32967 = 30/91$	$0,18127$	$0,20414$	$0,36788$	$L = \lambda^{2n}(x_1 + 2)\dots(x_n + 2)e^{-\lambda\sum_i x_i - 2\lambda n}$ $T = \frac{2}{\bar{X}_n + 2}$	$\alpha = 5$ (tabella) $f(X\|Y = i) = f_{X,Y}(X, y = i)/f_Y(y = i), \quad i = 1, 2$ X, Y dipendenti $P = \frac{3}{4}$

QT : $\quad m = \frac{ln2}{\lambda}, \quad \lambda = 1, 2, 3, 1/2$

Y \ X	1	2	f_Y
1	$\frac{1}{\alpha}$	$\frac{1}{\alpha}$	$\frac{2}{\alpha}$
2	$\frac{2}{\alpha}$	$1-\frac{4}{\alpha}$	$1-\frac{2}{\alpha}$
f_X	$\frac{3}{\alpha}$	$1-\frac{3}{\alpha}$	1