Table of Contents

1. Varianz

Ereignis	**X**	**P(X = g)**	**P(X = g) * g**	**P(X = g) * g^2**

2. Lineare Regression

i	$\mathbf{x_i}$	$\mathbf{y_i}$	$\mathbf{x^2_i}$	$\mathbf{y^2_i}$	$\mathbf{x_i y_i}$
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
	E(X)	E(Y)	$E(X^2)$	$E(Y^2)$	E(XY)

- $var(X) = E(X^2) - E(X)^2 =$
- $var(Y) = E(Y^2) - E(Y)^2 =$
- $cov(X,Y) = E(XY) - E(X)E(Y) =$
- $a = cov(X,Y)/var(X) =$
- $b = E(Y) - aE(X) =$
- $r = cov(X,Y)/sqrt(var(X)var(Y)) =$

3. X^2-Test

i	**p_i**	**n_i**	**np_i**	**$n_i - np_i$**	**$(n_i - np_i)^2 / np_i$**
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
		$n = sum(n_i)$			$D = sum(n_i - np_i)^2/np_i$

4. Kolmogorov-Smirnov