E1 Example Calculation of the Agreement Index of Initial Divergence in Mental Models

Purpose	Member 1	Member 2	Member 3	-	Mail	PP	Chat	Ticket	Board
team communication	Chat	Chat	Mail	\rightarrow	1	0	2	0	0
company communication	Chat	PowerPoint	Mail		1	1	1	0	0
allocation of tasks	Chat	Chat	Mail		1	0	2	0	0
documentation of data	Chat	Chat	Chat		0	0	3	0	0
presentation	PowerPoint	PowerPoint	PowerPoint		0	3	0	0	0
				-	3	4	8	0	0 = 15
				pj	3/15=0.2	0.267	0.533	0	0

Equations	Example				
$p_{\rm e} = \sum p j^2$	$p_e = 0.2^2 + 0.267^2 + 0.53^2 = 0.396$				
$p_0 = \frac{\sum(1/(n*(n-1))*(\sum ni^2 - ni))}{j}$	$p_0 = (1 / (3^*(3-1))^* (1^2 + 0^2 + 2^2 + 0^2 + 0^2) + (1 / (2^*(2-1))^* (0^2 + 2^2 + 0^2 + 0^2 + 0^2) / 5)$				
n = raters/members, i = ICTs, j =	+ $(1 / (3^{*}(3-1)) * (0^{2} + 3^{2} + 0^{2} + 0^{2} + 0^{2}) / 5)$ p0 = 0.533				
purposes	1				
$Kappa = \frac{p0-pe}{1-pe}$	Kappa = $(0.533 - 0.396) / (1 - 0.396) = 0.228$				