Data Analysis Report

Objective: Development and assessment of index to establish the perceived extent of formality of a profession
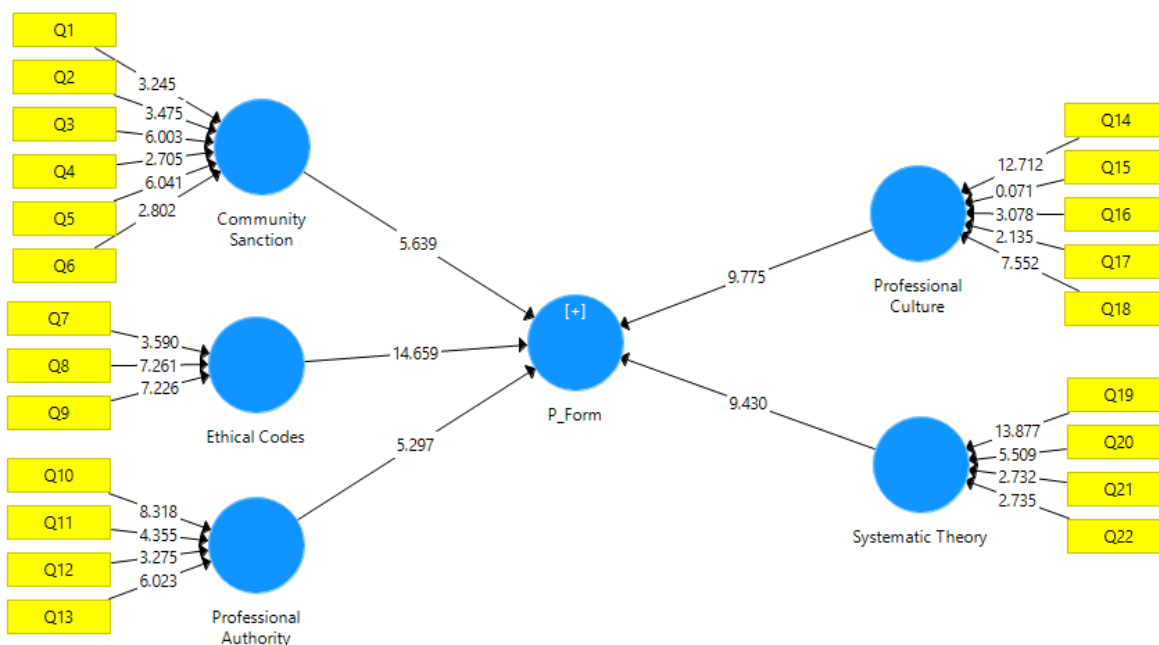
1.0 Assessment of Collinearity using VIF

VIF calculated using SmartPLS 3.2.8 software through PLS Algorithm (*Path weighting scheme, 300 iterations, Stop criterion 10^-7*). All the values are below the threshold of 5.

Outer Model							
Item No	**VIF**	**Item No**	**VIF**	**Item No**	**VIF**	**Item No**	**VIF**
Q1	1.773	Q7	1.371	Q13	1.767	Q18	1.15
Q2	1.135	Q8	1.615	Q14	1.181	Q19	1.795
Q3	1.441	Q9	2.053	Q15	1.38	Q20	2.062
Q4	1.146	Q10	1.028	Q16	1.356	Q21	2.363
Q5	2.075	Q11	2.57	Q17	1.467	Q22	1.175
Q6	2.282	Q12	2.726				

Inner Model	
Latent Variables	**VIF with P_Form**
Community Sanction	1.338
Ethical Codes	2.08
Professional Authority	1.51
Professional Culture	2.765
Systematic Theory	3.179

2.0 Path Modeling and Assessment using PLS-SEM

Conducted using SmartPLS 3.2.8 software through Bootstrapping routine (*5000 subsamples, complete bootstrapping, Bias-Corrected and Accelerated (BCa) Bootstrap, Two tailed test, 0.05 significance level*). All the t values are above the threshold of 1.96.

Testing Results – Outer Model

Formative Constructs	Formative Indicators	Outer Weights (Outer Loadings)	t Value	p Value	95% BCa Confidence Interval
Community Sanction	Q1	-0.467 (0.099)	3.245	0.001	[-0.763, -0.209]
	Q2	0.332 (0.233)	3.475	0.001	[0.159, 0.534]
	Q3	0.533 (0.67)	6.003	0	[0.364, 0.696]
	Q4	-0.257 (-0.094)	2.705	0.007	[-0.445, -0.081]
	Q5	0.621 (0.706)	6.041	0	[0.436, 0.838]
	Q6	-0.233 (-0.643)	2.802	0.005	[-0.404, -0.073]
Ethical Codes	Q7	0.304 (0.662)	3.59	0	[0.115, 0.45]
	Q8	0.453 (0.82)	7.261	0	[0.341, 0.579]
	Q9	0.472 (0.906)	7.226	0	[0.347, 0.6]
Professional Authority	Q10	0.782 (0.696)	8.318	0	[0.58, 0.934]
	Q11	-0.513 (-0.407)	4.355	0	[-0.76, -0.297]
	Q12	0.465 (-0.215)	3.275	0.001	[0.204, 0.755]
	Q13	-0.625 (-0.555)	6.023	0	[-0.827, -0.419]
Professional Culture	Q14	0.762 (0.859)	12.712	0	[0.649, 0.879]
	Q15	0.004 (0.31)	0.071	0.943	[-0.093, 0.11]
	Q16	0.18 (0.402)	3.078	0.002	[0.065, 0.295]
	Q17	-0.127 (-0.087)	2.135	0.033	[-0.25, -0.014]
	Q18	0.456 (0.572)	7.552	0	[0.328, 0.565]
Systematic Theory	Q19	0.665 (0.945)	13.877	0	[0.58, 0.769]
	Q20	0.266 (0.764)	5.509	0	[0.173, 0.361]
	Q21	0.141 (0.781)	2.732	0.006	[0.029, 0.233]
	Q22	0.125 (0.471)	2.735	0.006	[0.032, 0.209]

Testing Results – Inner Model

Latent Variable Relationship	Path Coefficients	T-Values
Community Sanction -> P_Form	0.175	5.639
Ethical Codes -> P_Form	0.295	14.659
Professional Authority -> P_Form	0.132	5.297
Professional Culture -> P_Form	0.237	9.775
Systematic Theory -> P_Form	0.384	9.43

Latent Variable Correlations

	CS	EC	PA	PC	ST	P_Form
CS	-					
EC	0.447	-				
PA	0.269	0.461	-			
PC	0.438	0.649	0.351	-		
ST	0.453	0.649	0.543	0.762	-	
P_Form	0.62	0.837	0.607	0.844	0.907	-