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批判思考意向量表

Inventory of Critical-thinking Dispositions (ICTD)

The development of ICTD

In the EFA, principal component analysis with varimax rotation was employed for factor extraction and rotation. As shown in Table 1, the factor loadings of the 18 items across four factors ranged from .51 to .81, accounting for 55.90% of the total variance. In the reliability analysis, Cronbach’s α coefficients for the ICTD overall and its four factors were .90, .77, .75, .77, and .75, respectively. Additionally, item-total correlation coefficients ranged from .46 to .64. The correlations between each factor and the total score ranged from .50 to .86 ($ps < .001$).

Furthermore, using maximum likelihood estimation, the confirmatory factor analysis (CFA) results indicated that the ICTD demonstrated good construct validity and reliability, $\chi^2(N = 434, df = 129) = 289.75, p < .001$. The goodness-of-fit indices were as follows: goodness-of-fit index (GFI) = .93, adjusted goodness-of-fit index (AGFI) = .91, standardized root mean square residual (SRMR) = .05, root mean square error of approximation (RMSEA) = .05, incremental fit index (IFI) = .94, and comparative fit index (CFI) = .94.

Table 11. The factor loadings of the CTD (N = 434)

New No	Factors and items	Factor loadings			
		1	2	3	4
	Factor 1: Information authenticity 訊息真實性探究 ($\alpha = .774$)				
1	23.我會質疑網路或手機大量流傳的訊息之真偽。	.805			
5	22.在分享手機或網路訊息時，我會先仔細思考其真確性再分享。	.769			
9	24.當我懷疑手機或網路訊息的真確性時，我會利用網路平台或其他方式查證。	.728			

13	5.在使用一項訊息之前，我會先思考此一訊息是否可靠。	.559
	Factor 2: Systematic analyses and opinion validation 系統分析與觀點驗證 ($\alpha = .745$)	
2	8.在處理問題時，我嘗試先將問題定義清楚。	.670
6	15.在著手解決一個問題之前，我先試著去找出此一問題的發生原因。	.667
10	10.在解決問題時，我設法使自己保有最新與最完整的相關訊息。	.586
14	9.我嘗試藉由自我質疑的方式，來決定自己的觀點是否具有足夠的信服力。	.549
17	6.我嘗試去檢證新觀點的價值性與可靠性。	.533
	Factor 3: Rational and multi-perspective thinking 理性與多元思考($\alpha = .771$)	
3	4.即使是在面臨複雜的問題時，我仍然設法保持理性和邏輯的思考。	.674
7	13.在解決問題時，我試著去考慮各種不同的可能解決方案。	.658
11	1.我嘗試採取不同的角度去思考一個問題。	.633
15	20.在做成決定之前，我試著去預測所有變通方案可能產生的結果。	.546
18	21.當針對爭議性問題提出個人觀點時，我會提出客觀的支持理由。	.506
	Factor 4: Assumption identification and open-mindedness 假設辨識與心胸開放($\alpha = .746$)	
4	17.當他人提出一個論點時，我試著去找出這個論點中所隱含的主要假設。	.771
8	18.我嘗試去進一步探索新奇的事物或觀點。	.627
12	16.對於新近發生的爭議性問題，我嘗試去了解其來龍去脈。	.612
16	2.我嘗試去應用一些新的觀點或概念。	.585