

A Multi-Purpose Equivalence Estimator for Quantitative Career Matching

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Abstract

lalala dsds.

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lalala (Lalala, 1919).

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dsds (Ds, 1919)

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An initial insight for an equivalence estimator:

$$\text{eq}(x, M) = x^{\frac{1}{1-M}} \quad (1)$$

$$\text{eq}(\hat{a}_i^k, \gamma_k) = \hat{a}_i^k^{\frac{1-\gamma_k}{\gamma_k}} = \hat{a}_i^k^{\frac{1}{\gamma_k}-1} \quad (2)$$

The linear-logistic trigonometrically-scaled equivalence estimator:

$$\text{eq}(x, M) = x \{1 + M(1 - x) \exp[-b(x - M)]\}^{-\frac{M}{x}}, \quad (3)$$

$$b = \tan \left[\frac{\pi}{2} \cos^{M(1-M)} \left(\frac{\pi}{2} x(1 - M) \right) \right], \quad (4)$$

$$x, M \in [0, 1]. \quad (5)$$

2.3 Applications of the Equivalence Estimator

2.3.1 Skill Set Interchangeability

$$\beta_{k,q} = \beta(s(\mathbf{a}_k, \mathbf{a}_q), M) = \text{eq}(s(\mathbf{a}_k, \mathbf{a}_q), M) \quad (6)$$

$$\mathbf{B} = \begin{bmatrix} \beta_{1,1} & \cdots & \beta_{n,1} \\ \vdots & \ddots & \vdots \\ \beta_{1,n} & \cdots & \beta_{n,n} \end{bmatrix} = \begin{bmatrix} 1 & \cdots & \beta_{k,1} & \cdots & \beta_{n,1} \\ \vdots & \ddots & \vdots & \vdots & \vdots \\ \beta_{1,k} & \cdots & 1 & \cdots & \beta_{n,k} \\ \vdots & \vdots & \vdots & \ddots & \vdots \\ \beta_{1,n} & \cdots & \beta_{k,n} & \cdots & 1 \end{bmatrix} \quad (7)$$

$$(8)$$

$$h_{k,q} = h(\beta_{k,q}) = \begin{cases} 1, & \text{if } \beta_{k,q} \geq 0.5. \\ 0, & \text{otherwise.} \end{cases} \quad (9)$$

2.3.2 Attribute Equivalence

$$\ddot{a}_i^k = \ddot{a}(\mathbf{a}_k, M) = \text{eq} \left(\frac{a_i^k}{\max_j a_j^k}, M \right) \quad (10)$$

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dsdsds (dsdsds [ds], 1919)

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References

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Appendix