

Shouji Rating System V3.3

Formulas

$$A\mu = 1500$$

$$B\mu = 1500$$

$$A\varphi = 0.64$$

$$B\varphi = 0.64$$

$$A\sigma = 0$$

$$B\sigma = 0$$

$$\beta = 400$$

$$\alpha = 0.5$$

$$C = (A\varphi * B\varphi * AT * BT) ** 0.25 * \beta + \ln(\beta)$$

$$AJ = A\mu ** \text{mean}(A\varphi, AT)$$

$$BJ = B\mu ** \text{mean}(B\varphi, BT)$$

$$AT = A\mu / (A\mu * A\varphi + A\mu)$$

$$BT = B\mu / (B\mu * B\varphi + B\mu)$$

$$A^o = 1 / (1 + 10 ** ((B\mu - A\mu) / C))$$

$$B^o = 1 / (1 + 10 ** ((A\mu - B\mu) / C))$$

A \emptyset , 1 = Win, 0.5 = Draw, 0 = Loss.

B \emptyset , 1 = Win, 0.5 = Draw, 0 = Loss.

$$A\mu' = A\mu + AJ ** \alpha * (A\emptyset - A^o) + AJ ** \alpha * A\sigma$$

$$B\mu' = B\mu + BJ ** \alpha * (B\emptyset - B^o) + BJ ** \alpha * B\sigma$$

$$A\varphi' = (A\varphi * AT) ** (1 - |A\sigma|)$$

$$B\varphi' = (B\varphi * BT) ** (1 - |B\sigma|)$$