Shouji Rating System V3.4

Formulas

Aμ 1500
Bμ 1500
Aφ 0.64
Bφ 0.64
Aσ 0
Bσ 0
β 400
α 0.5

$$\mathbb{C} = mean(A\varphi, B\varphi, AT, BT) * \beta$$

Aƒ $= A\mu ** mean(\alpha, AT)$

Bƒ $= B\mu ** mean(\alpha, BT)$

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

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

A° $= 1/(1 + exp((B\mu - A\mu)/\mathbb{C}))$

B° $= 1/(1 + exp((A\mu - B\mu)/\mathbb{C}))$

Aø, 1 = Win, 0.5 = Draw, 0 = Loss.

Bø, 1 = Win, 0.5 = Draw, 0 = Loss.

Aμ' $= A\mu + Af ** A\varphi * (A\text{ø} - A°) + Af ** A\varphi * A\sigma$

Bμ' $= B\mu + Bf ** B\varphi * (B\text{ø} - B°) + Bf ** B\varphi * B\sigma$

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

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