Shouji Rating System

Formulas

Aμ 1500

Bμ 1500

Aσ 225

Bσ 225

Aς 0

Bς 0

β 400

α 0.5

φ 0.5

Af $= \beta At$

Bf $= \beta Bt$

ρ $= \beta((At + Bt)/2)$

At $= (A\sigma/(A\sigma + \beta)) ** (1 - \alpha)$

Bt $= (B\sigma/(B\sigma + \beta)) ** (1 - \alpha)$

Ap $= arctan((A\mu - B\mu)/\rho)/\pi + 0.5$

Bp $= arctan((B\mu - A\mu)/\rho)/\pi + 0.5$

As, 1 = Win, 0.5 = Draw, 0 = Loss.

Bs, 1 = Win, 0.5 = Draw, 0 = Loss.

Aμ' $= A\mu + Af(As - Ap) + AfA\varsigma$

Bμ' $= B\mu + Bf(Bs - Bp) + BfB\varsigma$

Aσ' $= \varphi A\sigma + A\sigma|A\varsigma|$

Bσ' $= \varphi B\sigma + B\sigma|B\varsigma|$