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# سودمندی استفاده از روش‌های تحلیل تکنیکی در بورس اوراق بهادار تهران

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n

$$M_{t,n} = \frac{1}{n} \sum_{i=t-n+1}^t C_i$$

$$= (C_t + C_{t-1} + \dots + C_{t-n+2} + C_{t-n+1}) / n$$

t

n

$M_{t,n}$

( $C_i$ )

:

t

$$t = \bar{r} / (\sigma_r / \sqrt{n})$$

$$\sigma_r \left( \frac{1}{n} \sum_{i \in \Omega} r_i \right) = \bar{r}$$

$$( \quad )$$

$$r_t$$

$$r_t = \ln (TEPIX_t / TEPIX_{t-1}) \quad ( )$$

$$t \quad TEPIX_t$$

$$: \quad (\bar{r})$$

$$\bar{r} = \left( \sum_{i \in \Omega} r_i \right) / n \quad ( )$$

$$(\sigma^2 / n) \quad \mu \quad (\bar{r})$$

$$\Omega \quad n \quad (\bar{r}) \quad n_{buy} \quad \bar{r}_{buy}$$

$$n_{sell} \quad (\bar{r}_{sell})$$

$$\mu_{sell} \quad \mu_{buy}$$

$$\sigma_{sell} \quad \sigma_{buy}$$

$$\{H_{01} : \mu_{buy} = 0\}$$

$$\{H_{11} : \mu_{buy} > 0\}$$

$$T_b = \bar{r}_{buy} / (s / \sqrt{n_{buy}}) \quad ( )$$

(s)

$$(s) \quad (\sigma_{sell} \quad \sigma_{buy})$$

T  $(H_{01})$

$\alpha$

$T_b \approx N(0,1)$

$(H_{01} : \mu_{buy} = 0)$

$T_b > z_\alpha$

Stat-B

$T_b$

:

$$T_s = \bar{r}_{sell} / (s / \sqrt{n_{sell}}) \quad ( )$$

$H_{12} : \mu_{sell} < 0$

$H_{02} : \mu_{sell} = 0$

$H_{02}$

$(T_s < -z_\alpha)$

$T_s$

Stat-S

:

$$\mu_{str} = \frac{1}{T} \sum_{t=1}^T r_t d_t \quad ( )$$

$d_t$

$t$

$r_t$



: T

$$T_{str} = \frac{\mu_{str} - \mu}{\sqrt{\frac{\sigma_{str}^2}{N_{str}} + \frac{\sigma^2}{N}}} \quad ( )$$

$$\sigma_{str}^2 \quad \mu_{str}$$

( )

$$(\bar{r}_D = \bar{r}_{buy} - \bar{r}_{sell})$$

$$(H_{03} : \mu_D = 0 \text{ vs } H_{13} : \mu_D > 0)$$

$$T_D = (\bar{r}_D - 0) / [s(1/\sqrt{n_{buy}} + 1/\sqrt{n_{sell}})]$$

$$(H_{03}) \quad T_D > z_\alpha$$

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T (

$$(T_{t,n} = M_{t,n} / S_{t,n}) \quad ( )$$

$$: \quad ( ) \quad M_{t,n}$$

$$S_{t,n} = \sqrt{\sum_{i=t-n+1}^t (C_i - M_{t,n})^2 / (n-1)} \quad ( )$$

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Stat-B	/	a
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