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• ( ), [1]:

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• , — ; , , ;

[1].

{W}

{P}, — {v}, {d},

.

:

1)  
 $t=1, 2, \dots, n''$ :

$$\{W_t\}_{t=1,2,\dots,n''}; \{P_t\}_{t=1,2,\dots,n''}; \{v_t\}_{t=1,2,\dots,n''}; \{d_t\}_{t=1,2,\dots,n''};$$

2) ( , , ):

$$\{P_t\}_{t=1,2,\dots,n''}; \{v_t\}_{t=1,2,\dots,n''}; \{d_t\}_{t=1,2,\dots,n''}; \{W_t\}_{t=1,2,\dots,n''};$$

$$n' = n'' - NK,$$

3)  $NK -$  ,  $n'$  ;  $\tau$  :

$$\bar{P}_t = \frac{1}{\tau} \sum_{i=t}^{t+\tau-1} P_i; \bar{v}_t = \frac{1}{\tau} \sum_{i=t}^{t+\tau-1} v_i; \bar{d}_t = \frac{1}{\tau} \sum_{i=t}^{t+\tau-1} d_i; \bar{W}_t = \frac{1}{\tau} \sum_{i=t}^{t+\tau-1} W_i; \quad (2)$$

$$\{\bar{P}_t\}_{t=1,2,\dots,n}; \{\bar{v}_t\}_{t=1,2,\dots,n}; \{\bar{d}_t\}_{t=1,2,\dots,n}; \{\bar{W}_t\}_{t=1,2,\dots,n}; \quad (3)$$

$$n = n' - (\tau - 1); t = 1, 2, \dots, n;$$

4) [2]:

$$W_t^* = \beta_p P + \beta_v v + \beta_d d, \quad \cdot / \cdot, \quad (4)$$

$\beta_p, \beta_v, \beta_d -$  ;  $v -$  ;  $d -$  ;

$$W_t = W_t^* + \varepsilon_t, \quad \cdot / \cdot, \quad (5)$$

$W_t -$  ;  $W_t^* -$  ;  $\varepsilon_t -$  ;

$$\delta_t = 100 \frac{\varepsilon_t}{W_t}, \% \quad (6)$$

$t = 1, 2, \dots, n$ .  
 $\delta^{\max}$ ,  
 $\sigma(\delta)$  [3]:

$$\delta^{\max} = \max\{\delta_t\}_{t=1,2,\dots,n}, \% \quad (7)$$

$$\sigma(\delta) = \sqrt{\frac{1}{n-k-1} \sum_{i=1}^n \delta_i^2} \cdot 100, \% \quad (8)$$

$k$  -  
 $\varepsilon_t$ .

[3]

$$\bar{\varepsilon} = \sum_{t=1}^n \varepsilon_t \frac{m_t}{n} \approx \mu_\varepsilon = \sum_{t=1}^n \varepsilon_t p_t, \quad (9)$$

$m_t$  -  $\varepsilon_t$ ;  $p_t$  -  $\varepsilon_t$ .  
 [3],

$$\lim_{n \rightarrow \infty} P\left(\left|\frac{m_t}{n} - p_t\right| < \xi\right) = 1, \quad (10)$$

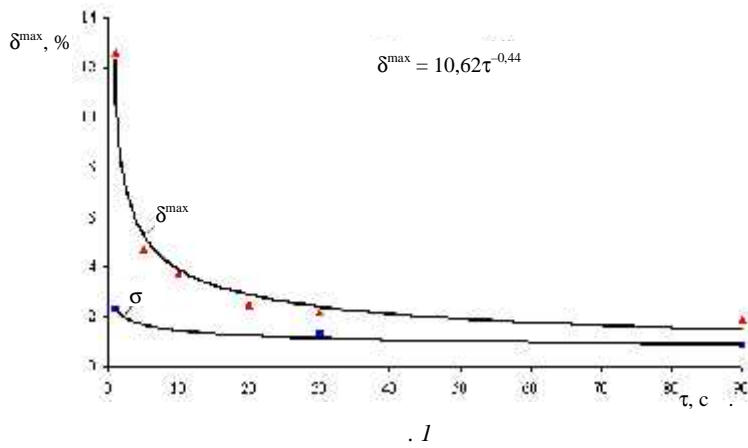
$\xi$  -  
 $(\mu_\varepsilon \approx 0)$ .  
 $\varepsilon$

(Moving Average),

$$\bar{W}_t = \frac{1}{\tau} \sum_{i=t}^{t+\tau-1} W_i = \frac{1}{\tau} \sum_{i=t}^{t+\tau-1} W_i^\varepsilon + \frac{1}{\tau} \sum_{i=t}^{t+\tau-1} \varepsilon_i = \tilde{W}_t + \bar{\varepsilon}_t, \quad (11)$$

$$n = n' - (\tau - 1); t = 1, 2, \dots, n,$$

$\bar{W}$  -  
 $\varepsilon$ ,  $\tau$ ,  $\delta^{\max}$ ,  $\sigma$ ,  $\tau$ ,  $\delta^{\max}$ ,  $\sigma(\delta)$ .  
 $\tau$ .



. 1 ,

,  $\delta^{\max} = 12,6 \%$ ,

110 . / .

( $\delta^{\max} = 1,9 \%$ )  
 ( $\tau = 90$  .).

$\tau$

$\delta^{\max}$   
 $\sigma(\delta)$

$\tau = 5$  90  
 $\tau = 30$  .

$\tau = 30$  .

1. . . . . / . . . . . , . . . . . , . . . . .  
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2. . . . . , . . . . .  
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3. . . . . - 5- . . . . . : . . . . . , 1977. - 479 .

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