

336: 368.03

... ..

« »,

1) [1]:

2) « » [3].

[2].

«

[6].

[7].

« »

[2].

[6].

[10].

[8].

[11].

).

[5].

« »

«MS Excel».

[4].

1. «MS Excel» (MS Excel) — x_1^2, x_2^2, y^2
 2. «MS Excel».

3. (1):

$$r_{y x_1} = \frac{\sum y_i x_{1i} / n - \bar{x}_1 \bar{y}}{S_{x_1} S_y}; r_{y x_2} = \frac{\sum y_i x_{2i} / n - \bar{x}_2 \bar{y}}{S_{x_2} S_y}; r_{x_1 x_2} = \frac{\sum x_{1i} x_{2i} / n - \bar{x}_1 \bar{x}_2}{S_{x_1} S_{x_2}}. \quad (1)$$

4. (2):

$$a_1 = \sum_{i=1}^2 W_{1i}^{-1} V_i = \frac{s_y (r_{y x_1} - r_{y x_2} r_{x_1 x_2})}{S_{x_1} (1 - r_{x_1 x_2}^2)}, a_2 = \sum_{i=1}^2 W_{2i}^{-1} V_i = \frac{s_y (r_{y x_2} - r_{y x_1} r_{x_1 x_2})}{S_{x_2} (1 - r_{x_1 x_2}^2)}, \quad (2)$$

$a_0 = \bar{y} - a_1 \bar{x}_1 - a_2 \bar{x}_2$

• :

$$S^2 = \sum_{i=1}^n (y_i - y(x_{1i}, x_{2i}, \dots, x_{mi}))^2 / K, \quad (3)$$

— (= m - n - 1).

• ($S_{a_0}, S_{a_1}, S_{a_2}$):

$$S_{a_0}^2 = S^2 (1/n + \bar{X} W^{-1} \bar{X}'), S_{a_k}^2 = S^2 W_{kk}^{-1}, k = 1, 2, \dots, m, \quad (4)$$

$\bar{X} = (\bar{x}_1, \bar{x}_2, \dots, \bar{x}_m)$.

$$: a_k - S_{a_k} t_{k,\alpha} < \alpha_k < a_k + S_{a_k} t_{k,\alpha},$$

• $(t_{a_0}, t_{a_1}, t_{a_2}):$

$$t_k = \frac{|a_k|}{S_{a_k}}, \quad k = 0, 1, 2, \dots, m. \tag{5}$$

• $k = 16 - 2 - 1 = 13; t_k, a = 2,16. \quad t_k, a = 0,05$

• $:$

$$P\left(\frac{|\bar{y}(X^0) - M(Y/X = X^0)|}{S_{\bar{y}(X^0)}} \leq t_{K,\alpha}\right) = 1 - \alpha, \tag{6}$$

$\alpha - \alpha. ; t_{K,a} -$

5.

$$F = \frac{(Q - Q) / K_1}{Q / K_2}, \tag{7}$$

$Q, Q -$

$\bar{y}(x_1, x_2, \dots, x_m); K_1 = m; K_2 = n - m - 1.$

$$F(K_1, K_2, a), \quad F(K_1, K_2, a),$$

$$F(K_1, K_2, a),$$

6.

$$Q_3 = \begin{bmatrix} 1 & r_{xy_1} & r_{yx_2} \\ r_{yx_1} & 1 & r_{x_1x_2} \\ r_{yx_1} & r_{x_1x_2} & 1 \end{bmatrix}, \tag{8}$$

• $: 1,1', 2,2', 3,3', 1,2', 1,3 \tag{3}$

$$(3.6) \quad R^2_{yx_1x_2}, \quad R_{yx_1x_2},$$

• (y)

$Y(x_1x_2) = 6,189 + x_1 \times 2,401 + x_2 \times 3,283. \quad : r(y, x_1) = 0,76565236,$
 $r(y, x_2) = 0,60301762, r(x_1, x_2) = 0,3362772.$

$R^2 = 0,7208, \quad x_1 (72,08\% \quad (\quad) .$

1966

(1477 12).

(29 578)

2011

1. — /

// — 2006. — 6. — . 26-28.

2. / — : - , 2000. — 112

3. / — .: - 2003. — 246

4. / — : 2003. — 320

5. — [.]. — : http://www.balance.ua/sai/sprav_info/metodu_amortizac.htm

6. / — X.: , 2003. — 148

7. : — [.]. — : <http://www.dtk.com.ua/debet/rus/2000/36/36pr1.html>

8. / , // — 2009. — 4. — . 13-19.

9. : (.) 288/4509 // — 2004. — 12. — . 33-36.

10. / — .: , 2003. — 200

11. / // — 2003. — 7. — . 23-31.