

$$= F \left(\dots, P_S, C_{sy}^z, f_y^z, \sum T^z, R_S^z \right) \quad (5)$$

$$= \sum_{j=1}^n P_{njp} \quad (6)$$

$$= \sum_{j=1}^n P_{vijp} \quad (7)$$

$$\| \dots \|, \quad \| \dots \|$$

$$\| X_{ij} \|$$

(1-4)

(1-4).

X_{ij}

j

$$\sum_{i=1}^m \sum_{j=1}^m X_{ij} = \sum_{j=1}^m \sum_{i=1}^m X_{ij} \tag{8}$$

$$= + + \tag{9}$$

$$= + S_i + E_i + I_{ni} \tag{10}$$

S_i

()

$$\sum_{i=1}^m = \sum_{i=1}^m (C_i + S_i + E_i + I_{ni} + y_i) \tag{11}$$

1

| <i>j</i> | | | | | | | | | (|) | | |
|----------|--------------|-------------------------------------|----|----------|-----|------------------------------------|-----------------------|--------------------|----------------------|----------------------|-----------------------|----------------------------|
| | 1 | 2 | .. | <i>j</i> | ... | <i>m</i> | | | | | | |
| 1 | 1. | | | | | | * | 2. | <i>S_i</i> | <i>E_i</i> | <i>I_{ni}</i> | <i>y_i</i> |
| 2 | $\ X_{ij}\ $ | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | <i>j</i> | | | | | | $\sum_{j=1}^m X'_j =$ | $\sum_{i=1}^m C_i$ | $\sum_{i=1}^m S_i$ | $\sum_{i=1}^m E_i$ | $\sum_{i=1}^m I_{ni}$ | $\sum_{i=1}^m y_i$ |
| | 1 | 2 | | <i>j</i> | | <i>m</i> | | | | | | |
| | | <i>M_i</i> | | | | | $\sum_j M_i$ | () | (^s) | () | (^{ln}) | Σ |
| | | <i>A_i</i> | | | | | $\sum_j A_i$ | () | (^s) | () | (^{ln}) | Σ |
| | | | | | | | $\sum_j i$ | () | (^s) | () | (^{ln}) | Σ |
| | | | | | | | $\sum_j i$ | () | (^s) | () | (^{ln}) | Σ |
| .. | | | | | | | | | | | | |
| | | <i>X_j</i> | | | | | $\sum_j X_j$ | | <i>S</i> | | <i>I_n</i> | <i>C+S+E+I_n</i> |
| 1 | | $\ S_{ij}\ $ | | | | | S_i^* | | | | | |
| ... | | | | | | | | | | | | |
| | | <i>S_j</i> | | | | $\sum_j S_j =$ | | | | | | |
| | | | | | | $\sum_i S_i^*$ | | | | | | |
| 1 | | $\ I_{nij}\ $ | | | | <i>I_{ni}</i> [*] | | | | | | |
| ... | | | | | | | | | | | | |
| | | <i>I_{nj}</i> | | | | $\sum_j I_{nj} =$ | | | | | | |
| | | | | | | $\sum_i I_{ni}^*$ | | | | | | |
| | | <i>S_j+I_{ni}</i> | | | | $\sum_j (S_j + I_{nj})$ | | | | | | |

$$= 1 + \sum_{j=1}^n X_{ij} + C_i + S_i + E_i + I_{ni} \quad (12)$$

$$\|S_{ij}\| \|I_{nij}\| \cdot S_{ij} \quad (11)$$

(12),

$$\sum_{=1} \rightarrow \max \quad (13)$$

$$X \rightarrow \max \quad (14)$$

$$\|S_{ij}\| \|I_{nij}\|,$$

[7]

; : - - ,
 ;
 - - , - -
 - -
 , () , , -
 , , - .
 1. ?/ . // .-2009.- 35.- .52.
 2. / . . . - ∴ ,
 2003.- 503 .
 3. - / [. . , . . , . .
 , . . , . .].- : , - ,
 2002.- 172 .
 4. .
 / . // .-2007.- 12.- .4-11.
 5. : - / . . . ,
 . . . - ∴ ,2003.-472 .
 6. . : : ./ . .
 - ,2006.-336 .(. - -)
 7. . -
 - -
 ./ . . // .-2009.- 1.- .51 -55.