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Q (X) (

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$$l(q) \rightarrow \min_{q \in Q}$$

$l_i$

I

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$l_1(q), l_2(q)$ ,

$q_1^* q_2^*$ ,

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( )

.1,

q

$q_1^* q_2^*$

q

X,

.1, ,

Q (X).

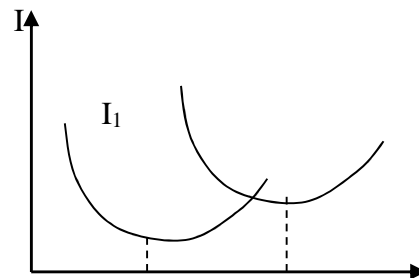
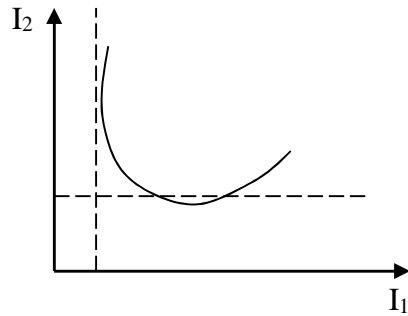
$l_1(q) l_2(q)$ .

$Q_1(X), Q_2(X), \dots, Q_s(X)$

$$\bar{X} = (x_1, x_2, \dots, x_n),$$

$$Q_i(x_1, x_2, \dots, x_n) \geq 0, i = \overline{1, m};$$

$$x_j^- \leq x_j \leq x_j^+, j = \overline{1, n}.$$



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Q1 (X) -

Q2 (X) -

Q3 (X) -

Q4 (X) -

Q5 (X) -

Q (X) ( )

im -

m -

S.

$$K_p = \min f_p(x_1, x_2, x_3, x_4). \quad (2)$$

$$f_p = [C_1 x_1; C_2 x_2; C_3 x_3; C_4 f(x_3)] =$$

$$= \min \left[ C_1 \frac{1}{1m}; C_2 \frac{2}{2m}; C_3 \frac{3}{3m}; C_4 f\left(\frac{3}{3m}\right) \right], \quad (3)$$

$$4 = f(x_3).$$

$$K_p = \min f_p(x_1, \dots, x_i, \dots, x_m), \quad (1)$$

$$x_i \leq x_{im}, i = \overline{1, m},$$

$$\left. \begin{aligned} x_1 &= F_1(x_1, \dots, x_n) = \min \\ x_2 &= F_2(x_1, \dots, x_n) \leq x_{2M} \\ \dots \\ x_m &= F_m(x_1, \dots, x_n) \leq x_{mM} \end{aligned} \right\} \quad (4)$$

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$$F_2 = (x_1, \dots, x_n), \dots, F_m(x_1, \dots, x_n)$$

$$F_j = (x_1, \dots, x_n).$$

(3).

(4)

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$$I_1 \quad I_1' \quad (I_1 -$$

$$, \quad I_1 - ) .$$

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1	2	3	4	5	6
S <sub>1</sub>	11	$\sigma_{11}$	$\sigma_{11}'$	I <sub>11</sub>	I <sub>11</sub> '
	12	$\sigma_{12}$	$\sigma_{12}'$	I <sub>12</sub>	I <sub>12</sub> '
	13	$\sigma_{13}$	$\sigma_{13}'$	I <sub>13</sub>	I <sub>13</sub> '
	14	$\sigma_{14}$	$\sigma_{14}'$	I <sub>14</sub>	I <sub>14</sub> '
S <sub>2</sub>	21	$\sigma_{21}$	$\sigma_{21}'$	I <sub>21</sub>	I <sub>21</sub> '
	22	$\sigma_{22}$	$\sigma_{22}'$	I <sub>22</sub>	I <sub>22</sub> '
	23	$\sigma_{23}$	$\sigma_{23}'$	I <sub>23</sub>	I <sub>23</sub> '
	24	$\sigma_{24}$	$\sigma_{24}'$	I <sub>22</sub>	I <sub>22</sub> '
S <sub>3</sub>	31	$\sigma_{31}$	$\sigma_{31}'$	I <sub>31</sub>	I <sub>31</sub> '
	32	$\sigma_{32}$	$\sigma_{32}'$	I <sub>32</sub>	I <sub>32</sub> '
	33	$\sigma_{33}$	$\sigma_{33}'$	I <sub>33</sub>	I <sub>33</sub> '
	34	$\sigma_{34}$	$\sigma_{34}'$	I <sub>34</sub>	I <sub>34</sub> '
S <sub>4</sub>	41	$\sigma_{41}$	$\sigma_{41}'$	I <sub>41</sub>	I <sub>41</sub> '
	42	$\sigma_{42}$	$\sigma_{42}'$	I <sub>42</sub>	I <sub>42</sub> '
	43	$\sigma_{43}$	$\sigma_{43}'$	I <sub>43</sub>	I <sub>43</sub> '

	44	$\sigma_{44}$	$\sigma_{44}'$	$I_{44}$	$I_{44}'$
	45	$\sigma_{45}$	$\sigma_{45}'$	$I_{45}$	$I_{45}'$
				$I$	$I'$

$$\left. \begin{aligned}
 I_1 x_1 &\leq L_1 (KO_1); \\
 I_1' x_2 &\leq L_1' (KO_1'); \\
 I_2 x_1 &\leq L_2 (KO_2); \\
 I_2' x_2 &\leq L_2' (KO_2'); \\
 I_3 x_1 &\leq L_3 (KO_3); \\
 I_3' x_2 &\leq L_3' (KO_3'); \\
 I_4 x_1 &\leq L_4 (KO_4); \\
 I_4' x_2 &\leq L_4' (KO_4').
 \end{aligned} \right\} \quad (5)$$

$$F = Ix_1 + I'x_2. \quad (6)$$

(S) , F

$$\left. \begin{aligned}
 T_1 x_1 &\leq L_1 (S_1); \\
 T_1' x_2 &\leq L_2' (S_1'); \\
 T_2 x_1 &\leq L_2 (S_2); \\
 T_2' x_2 &\leq L_2' (S_2'); \\
 T_3 x_1 &\leq L_3 (S_3); \\
 T_3' x_2 &\leq L_3' (S_3'); \\
 T_4 x_1 &\leq L_4 (S_4); \\
 T_4' x_2 &\leq L_4' (S_4').
 \end{aligned} \right\} \quad (7)$$

$$F = Tx_1 + T'x_2. \quad (8)$$

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	1	2	T'	
S1	ij	ij'	T11	T11'
	12	12'	T12	T12'
	13	13'	T13	T13'
	14	14'	T14	T14'
S2	21	21'	T21	T21'
	22	22'	T22	T22'
	23	23'	T23	T23'
	24	24'	T24	T24'
S3	31	31'	T31	T31'
	32	32'	T32	T32'
	33	33'	T33	T33'
	34	34'	T34	T34'

S4	41	41'	T41	T41'
	42	42'	T42	T42'
	43	43'	T43	T43'
	44	44'	T44	T44'
			T	T'

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**METHOD DECISION PROBLEM OPTIMIZATION MNOHOKRYTERYALNOY MANAGEMENT SYSTEMS  
TELEKOMMUNYKATSYONN MY SETYAMY**

V.B. Tolubko, L.N. Berkman, L. . Komarova, .V. V'yunnik

*In the article the presented method of decision of task of multicriterion optimization of and the brought determinations over of private criteria is by means of vehicle of the linear programming.*

**Keywords:** control system, vehicle of the linear programming, telecommunication systems.