

621.372

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:

, [1, 2],

[3].

(),

[4]

UML

[5]

[6]

UML

$$F = (N, f, \delta, m_0) \quad [3] \quad (1)$$

$$N = (P, T, I, O) -$$

$$I: P \times T \rightarrow \{0,1\} \quad O: T \times P \rightarrow \{0,1\} -$$

f -

δ -

m_0 -

$$m_j^v = \max \{m_j, m \{m_i, f_k\} \mid (\forall p_j \in P) \& (O(t_k, p_j) > 0)\}, \quad (2)$$

m_j^v -

$$FNP = (N, f, \delta, m_0),$$

$$t_i, \quad t_i.$$

f

m_0 ,

$$\rho = [d_{ji}]_{m \times n}, \quad (4)$$

$$d_{ji} = \begin{cases} 1, & \text{если значение характеристики } c_j^A \rho K_i^A; \\ 0, & \text{если значение характеристики } c_j^A \bar{\rho} K_i^A, \end{cases}$$

$$K_i^A \in \{K_i^A\} \quad x \in X$$

$$F: X \rightarrow \{K_i^A\}, \quad (3)$$

$\{c_j^A\}$

c_4^A

(4)

c_1^A

c_2^A

c_3^A

IF $c_1^A = "00"$ THEN $x = K_1^A$; (6)

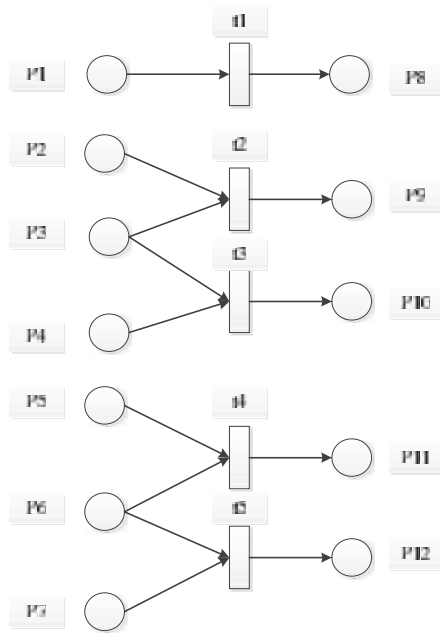
IF $c_1^A = "10"$ AND $c_2^A = "1"$ AND $c_3^A = "0"$ THEN $x = K_2^A$; (7)

IF $c_1^A = "10"$ AND $c_2^A = "1"$ AND $c_3^A = "1"$ THEN $x = K_3^A$; (8)

IF $c_1^A = "01"$ AND $c_2^A = "0"$ THEN $x = K_4^A$; (9)

IF ($c_1^A = "10"$ OR $c_1^A = "11"$) AND $c_2^A = "0"$ THEN $x = K_5^A$. (10)

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 « ».
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 ,
 « - »
 « ».
 (6) - (10)
 (1).



. 1.

$F_{B06} =$

δ

(N, f, δ, m_0) ,
 . 1.

: p_1 - « »; p_2 - « »;
 p_3 - « »;
 p_4 - « »;
 p_5 - « »; p_6 - « »;
 p_7 - « »;
 p_8 - « »;
 p_9 - « »; p_{10} - « »;
 p_{11} - « »;
 p_{12} - « ».

t₁ - 1, t₂ - 2, t₃ - 3,
t₄ - 4, t₅ - 5.



1. ... / ... , ... , ...
 ... // ...
 ... , 2011. - ... 5 (95). - ... 2-7.

2. ...
 ... / ...
 ... // ...
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3. ...
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 UML

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 ... , 2012. - 19 .

6. ...
 ... , 2009. - 19 .

... // ...
 ... , 2014. - ... 3 (31). - ... 111-119.

11.09.2014

p_в - p₁ .

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. 2.

METHOD OF TESTING OF FUZZY LOGICAL SYSTEM CLASSIFICATIONS AIR OBJECTS IN THE PROCESS OF CONTROL OF AIR SPACE ON BASIS OF FUZZY PETRI NETS

O.O. Timochko

In the article the method of testing of algorithms of the special fuzzy logical system of classification of air objects software is presented in the process of control of air space at system level of testing. As a mathematical vehicle for test presentation of fuzzy productional rules fuzzy ordinary Petri nets are used.

Keywords: *air object, classification, fuzzy productional rule, fuzzy ordinary Petri net.*
